RK05
disk drive
engineering drawings

digital equipment corporation · maynard, massachusetts

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET [X]

SEQUENCE	
DRAWING DIRECTORY	E-DD-RKØ5-Ø SHEET #1 ONLY
MODULE UTILIZATION LIST	C-MU-RKØ5-Ø-2
READ/WRITE	D-CS-G186-Ø-1
INDEX SECTOR	D-CS-M7700-Ø-1
CONTROL & INTERLOCK	D-CS-M7702-Ø-1
TRACK ADDRESS DIFFERENCE	D-CS-M7701-Ø-1
POSITION SERVO PREAMP	D-CS-G988-Ø-1
SERVO POWER AMP CIRCUIT	D-CS-H604-Ø-1
SERVO POWER AMP	E-UA-H604-0-0
CONTROL PANEL CIRCUIT	D-CS-5409698-0-1
CONTROL PANEL	E-IA-5409698-0-0
RELAY BOARD CIRCUIT	D-CS-5409574-0-1
DECPACK MOTOR RELAYS	E-IA-5409574-0-0
CHASSIS WIRING	D-BD-RKØ5-Ø-1
ACCESSORY LIST	A-AL-RKØ5-Ø-17
POWER SUPPLY (H743)	B-DD-H743-0

SEQUENCE MFG. PRINT SET	
MODULE UTILIZATION (PL)	A-PL-RKØ5-Ø-2
RKØ5 TESTER	B-DD-RKØ5-T
DECPACK ASSY	D-UA-RKØ5-0-0
DECPACK ASSY (PL)	A-PL-RKØ5-0-0
WIRED ASSY	D-AD-7008696-0-0
LINEAR POSITIONER ASSY	D-AD-7008702-0-0
LINEAR POSITIONER ASSY (PL)	A-PL-7008702-0-0
H743 POWER SUPPLY	B-DD-H743-0

UNIT VARIATIONS

VARIATION	TITLE	PRINT SET TYPE RKØ5-Ø
RKØ5-AA	DECPACK 115V 60HZ	X
RKØ5-AB	DECPACK 230V 60HZ	X
RKØ5-BA	DECPACK 115V 50HZ	X
RKØ5-BB	DECPACK 230V 50HZ	X

REVISIONS

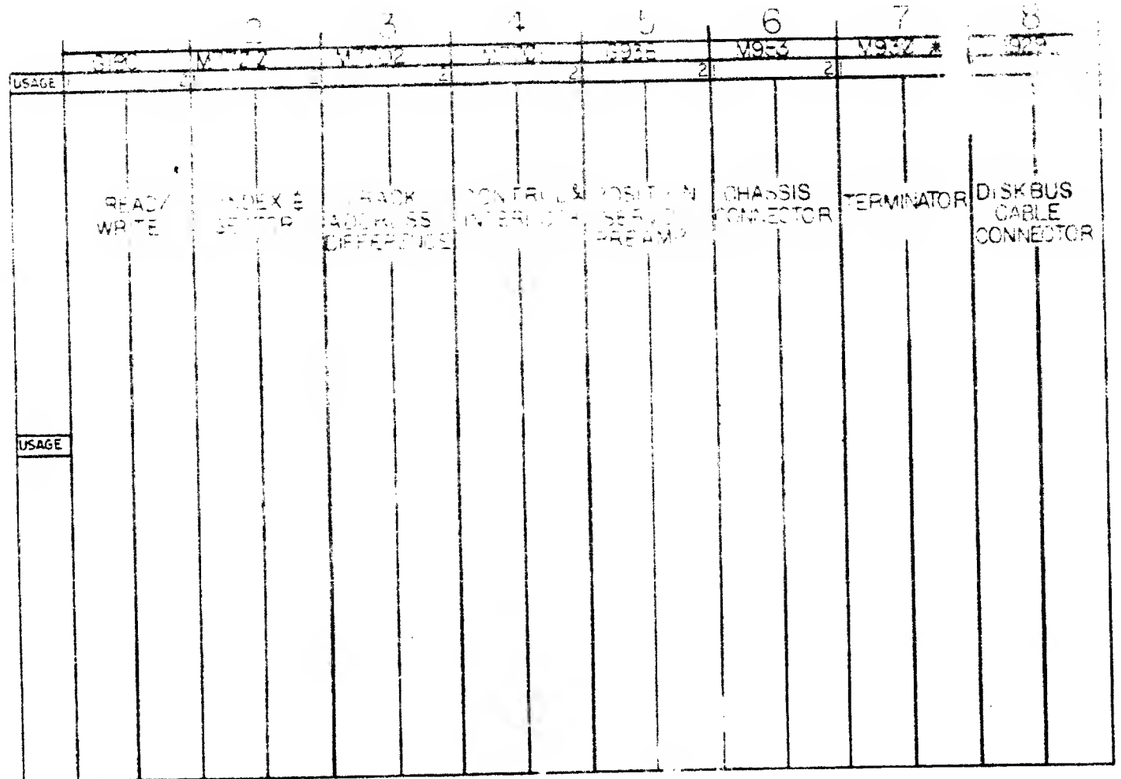
REV	CHG. NO.	DATE	
A	RKØ5-14	2/72	E.S.
B	RKØ5-16	4/72	E.S.
C	RKØ5-23	4/72	G.S.
D	RKØ5-26	4/72	D.J.
E	RKØ5-28	4/72	E.S.
F	RKØ5-30	4/72	E.S.
H	RKØ5-31	4/72	D.J.
J	RKØ5-32	4/72	D.J.
K	RKØ5-34	4/72	D.I.
L	RKØ5-35	4/72	
M	RKØ5-38	4/72	
N	RKØ5-39	4/72	
P	RKØ5-40	4/72	
R	RKØ5-41	4/72	
S	RKØ5-42	4/72	
T	RKØ5-45	4/72	
U	RKØ5-46	4/72	
V	RKØ5-48	4/72	
W	RKØ5-50	4/72	
Y	RKØ5-51	5/72	
Z	RKØ5-52	5/72	

USED ON OPTION/MODEL

DRN. J. FLEMING	DATE 1/26/72	TITLE DECPACK ASSY
CHK'D	DATE 5-2-72	
PROJ ENG.	DATE 5/2/72	
PROD.	DATE 5/4/72	SIZE B / CODE DD / NUMBER RKØ5-Ø / REV Z
FIELD SERV.	DATE 5/4/72	
SHEET 1 OF 5		DIST

NOTE

TERMINATOR AND DISKBUS CABLE CONNECTOR MAY BE INTERCHANGED BETWEEN SLOTS 7 AND 8.



* IF MORE THAN ONE DRIVE IS USED, M930 IS REPLACED BY M929 (BOTH), M930 IS USED IN THE LAST DRIVE ON THE BUS.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RKØ5		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES, TOLERANCES: DECIMALS XXX ± .005, XX ± .02, X ± .1; ANGLES ± 0° 30'. REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓

MATERIAL

FINISH

DRN. D. Schmidt	DATE	11-2-71
CHK'D. J. F. Conroy	DATE	11-2-71
ENG. Linda Nelson	DATE	24 Nov 71
PROJ. ENG.	DATE	11-24-71
PROD. J. Sarisky	DATE	11-24-71

NEXT HIGHER ASSY. B-DD-RKØ5-Ø

SCALE NONE SHEET OF

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

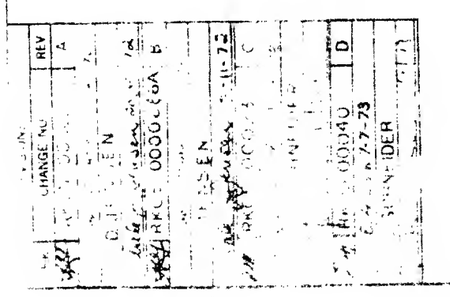
TITLE MODULE UTILIZATION

SIZE	CODE	NUMBER	REV.
C	MU	RKØ5-Ø-2	D

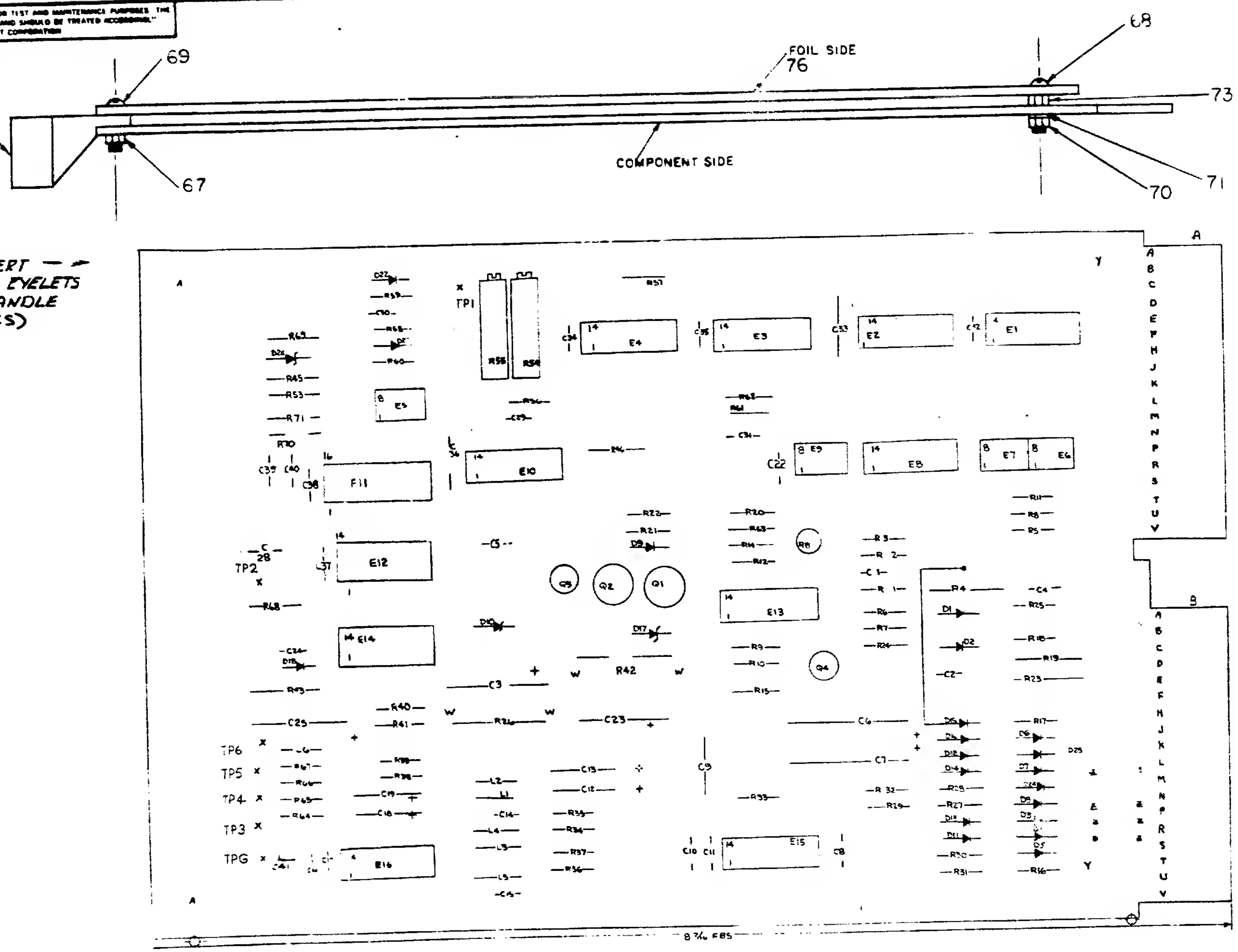
DIST

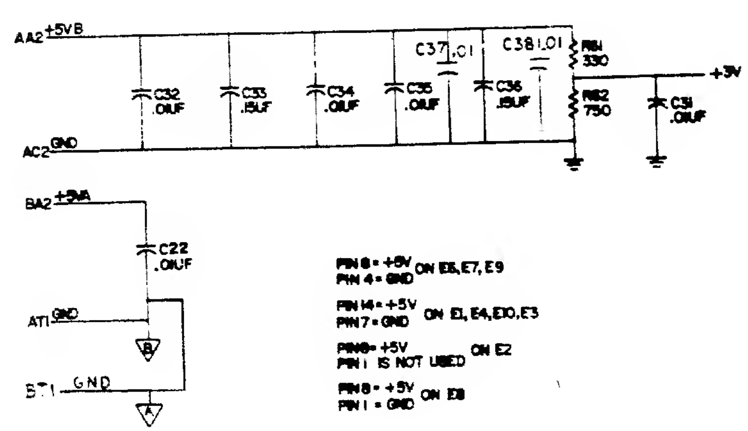
REV. D

SIZE C CODE MU NUMBER RKØ5-Ø-2



NOTE:
DO NOT INSERT HANDLE HOLE EYELETS ON OUTSIDE HANDLE HOLES. (2 PLCS)





PIN 8 = +5V
PIN 4 = GND ON E6, E7, E9

PIN 14 = +5V
PIN 7 = GND ON E1, E4, E10, E3

PIN 8 = +5V
PIN 1 IS NOT USED ON E2

PIN 8 = +5V
PIN 1 = GND ON E8

QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.	ITEM
[illegible]	E6, [illegible]	I.C. DEC 75452	1910645	66
2	E15, 16	I.C. DEC 733	1910644	65
1	E14	I.C. DEC 444	1910337	64
1	E5	I.C. DEC 741	1910298	63
[illegible]	E1	I.C. DEC 8881	1909705	62
2	E2, E8	I.C. DEC 380	1909485	61
1	E10	I.C. DEC 9601	1909373	60
[illegible]	E13	I.C. DEC 7472	1905588	59
2	E4, E12	I.C. DEC 7400	1905575	58
1	E3	I.C. DEC 7474	1905547	57
1	L6	INDUCTOR 120UH	1610663	56
2	L1, L2	INDUCTOR 560UH	1610661	55
3	L3, L4, L5	INDUCTOR 100UH	1610662	54
1	Q3	TRANSISTOR DEC 6534C	1503465-02	53
1	Q4	TRANSISTOR DEC 3009B	1503100	52
2	Q1, Q2	TRANSISTOR 2N2904	1501742	51
				50
			1309150-03	49
1	R13	POT. 1K ¼W 20% 62P[illegible]	1309143-10	48
2	R54, R55	POT 10K 3/4W 10% 74[illegible]	1305340	47
2	R16, R17	RES. 27K ¼W 5%	1303175	46
[illegible]	R27, R28	RES. 8.2K ¼W 5%	1302092	45
1	R60	RES. 220K ¼W 5%	1300285	44
1	R4	RES. 270 ¼W 5%	1301990	43
[illegible]	R40, R[illegible]	RES. 560 ¼W 5%	1301874	42
6	R6, [illegible], 70, 71	RES. 5.6K ¼W 5%	1301475	41
1	R11	RES. 1.1K ¼W 5%	1300439	40
1	R58	RES. 3.3K ¼W 5%	1301401	39
1	R62	RES. 750 ¼W 5%	1301320	38
2	R15, R21	RES. 1.2K ¼W 5%	1300496	37
2	R30, R31	RES. 15K ¼W 5%	1300475	36
6	R5, [illegible], 57	RES. 10K ¼W 5%	1300447	35
1	R59	RES. 4.7K ¼W 5%	1910436	34
1	E11	IC DEC 74123	1300365	33
16	R1, R2, R3, R20, R34-37, R46, R56, R63-68	RES. 1K ¼W 5%		
2	R24 R14	RES. 470 ¼W 5%	1300316	31
1	R43	RES. 470 ¼W 5%	1300315	30
3	R22, [illegible]	RES. 330 ¼W 5%	1300295	29
2	R29, R[illegible]	RES. 220 ¼W 5%	1300271	28
2	R[illegible], R[illegible]	RES. 180 1W 5%	1300262	27
1	R19	RES. 180 ¼W 5%	1300260	26
1	R12	RES. 150 ¼W 5%	1300250	25
1	R23	RES. 150 ¼W 5%	1300249	24
1	R33	RES. 47 ¼W 5%	1300202	23
8	1-8	GOLD WIREWRAP PINS	1210365-1	22
18	D1, D3-9, D11-16, D22-25	DIODE D672	1105275	21
			1105873	20
1	D2	DIODE 1N751A (5.1V ZENER)		19
				18
3	D10, D17, D18	DIODE 1N753A (6.2V ZENER)	1102421	17
3	C9, C21, C26	CAP. .15UF 50V 10% POLYCARBONATE	101003[illegible]	16
1	C15	CAP. 18PF 100V 5% D.M.	1002608	15
4	C12, C13, C16, C19	CAP. .15UF 35V 20% S.TANT	1002480	14
14	C4, 10, 11, 18, 19, 22, 24, C28, 31, 32, 34, 35, 37, 38	CAP. .01UF 100V 20% DISC	1001510	13
2	C6, C7	CAP. 10UF 35V 20% S.TANT	1000069	12
3	C3, C23, C25	CAP. 6.8UF 35V 20% S.TANT	1000067	11
1	C2	CAP. 680PF 100V 5% D.M.	1000026	10
2	C5, C30	CAP. 470PF 100V 5% D.M.	1000024	9
1	C29	CAP. 150PF 100V 5% D.M.	1000019	8
1	C41	CAP 27PF 100V 5% DM.	1001739	7
1	C11	CAP. 56PF 100V 5% D.M.	1000012	6
3	C1, C39, C40	CAP. 47PF 100V 5% D.M.	1000011	5
1	C8	CAP. 33PF 100V 5% D.M.	1000009	4
1		ETCHED CIRCUIT BOARD	5009743	3
		MODULE ECO HISTORY	B-MH-G180-0-[illegible]	2
		ASSY/DRILLING HOLE LAYOUT	B-AH-G180-0-[illegible]	1
		X-Y COORDINATE HOLE LOCATION	K-CO-G180-0-[illegible]	
QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.	ITEM

PARTS LIST

QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.	ITEM
1	D26	DIODE 1N748A (3.9V ZENER)	1100122	79
1	R69	RES. 180 ¼W 5%	1301322	78
2	R7, 10,	RES. 100 ¼W 5%	1300229	77
1		ERASE SHIELD	5009092	76
2		HANDLE, FLIP CHIP - GREEN	9006337-01	75
7	TPG-TP6	SWAGE LUG	9007781	74
2		HEX NUT, NYLON #2-56	9007263	73
2		EYELET #000-7	9006732	72
2		INTERNAL LOCK WASHER #2-56	9006631	71
2		HEX NUT #2-56	9006555	70
2		SCREW 4-40 x 3/8	9006021-4	69
2		SCREW PAN HD #2-56 x 5/16	9006002-1	68
2		KEP NUT 4/40	9006557	67

TRANSISTOR & DIODE CONVERSION CHART

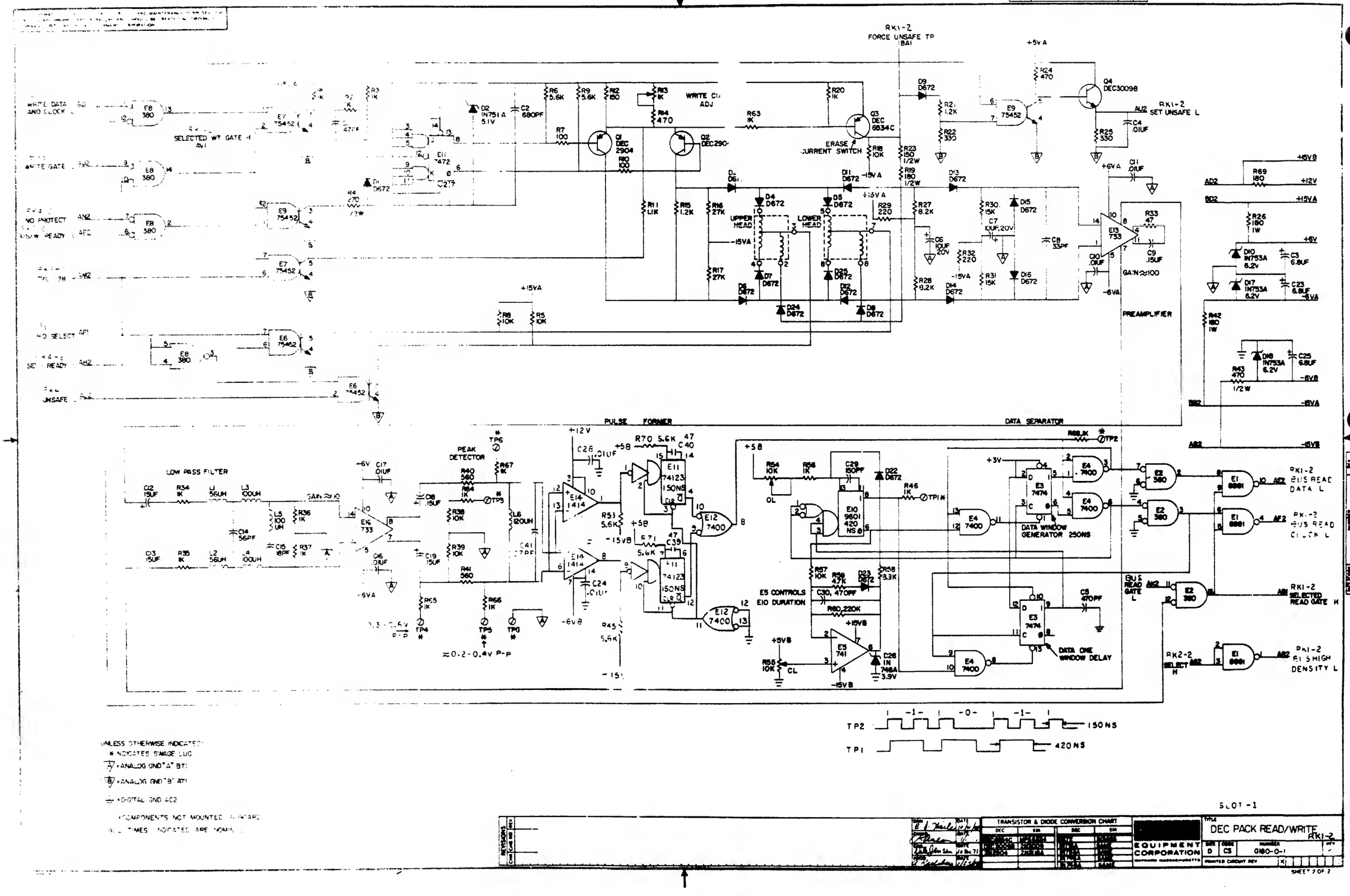
DEC	EIA	DEC	EIA

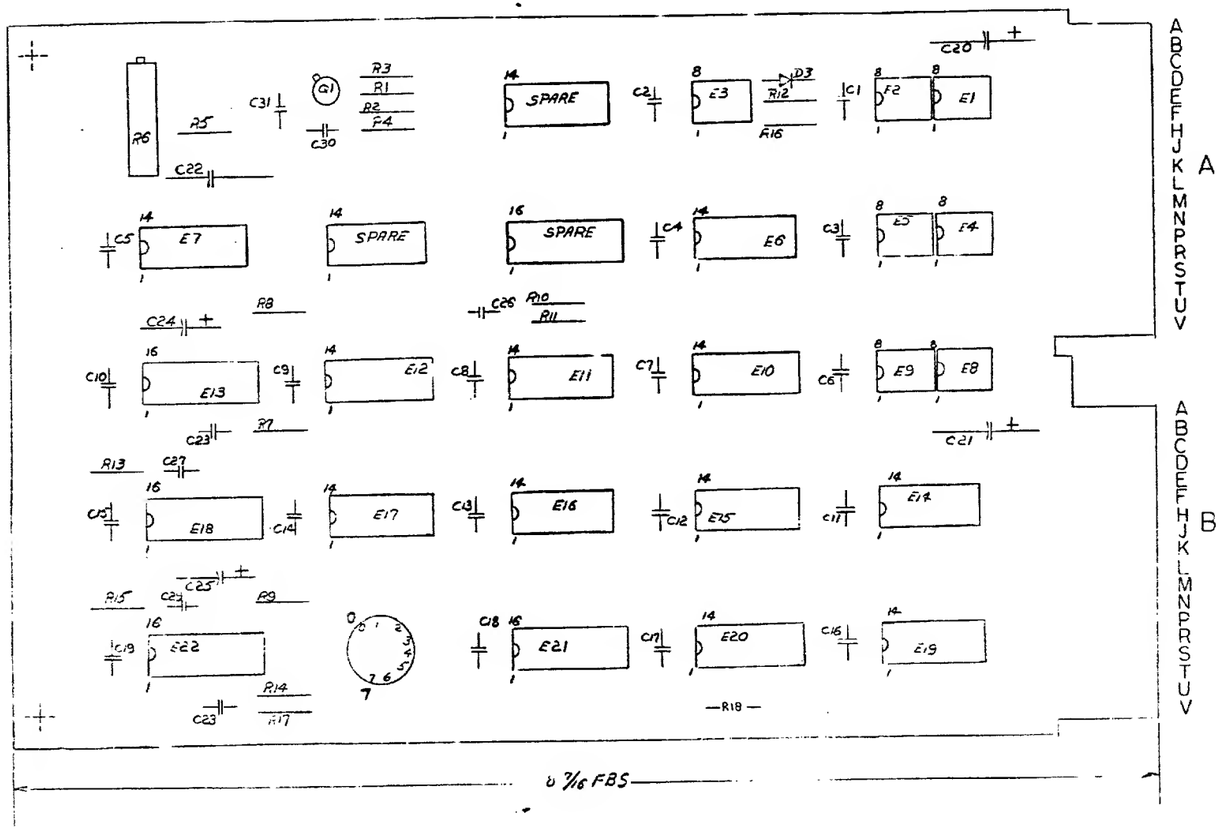
DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DEC PACK READ/WRITE RK11

SIZE: D
CODE: CS
NUMBER: G180-0-1
REV: K

SHEET 1 OF 2


RK1-2
FORCE UNSAFE TP
BA1
+5V A
WRITE DATA AND CLOCK L
WRITE GATE
NO PROTECT
R/S/W READY
HD SELECT
SET READY
UNSAFE
SELECTED WT GATE H
WRITE CU ADJ
ERASE CURRENT SWITCH
UPPER HEAD
LOWER HEAD
+15V A
-15V A
+6V A
-6V A
RK1-2
SET UNSAFE L
AU2
PREAMPLIFIER
GAIN≈100
+5V B
+12V
+15V B
+6V
-6V B
-15V B
PULSE FORMER
DATA SEPARATOR
LOW PASS FILTER
GAIN≈10
PEAK DETECTOR
≈0.2-0.4V P-P
DATA WINDOW GENERATOR 250NS
DATA ONE WINDOW DELAY
E5 CONTROLS E10 DURATION
RK1-2 BUS READ DATA L
RK1-2 BUS READ CLOCK L
RK1-2 SELECTED READ GATE H
RK2-2 SELECT H
RK1-2 IS HIGH DENSITY L
TP2
TP1
150NS
420NS
UNLESS OTHERWISE INDICATED:
# INDICATES STAGE LUG
ANALOG GND "A" BT1
ANALOG GND "B" BT1
DIGITAL GND AC2
COMPONENTS NOT MOUNTED IN THIS AREA
ALL TIMES INDICATED ARE NOMINAL
TRANSISTOR & DIODE CONVERSION CHART
EQUIPMENT CORPORATION
DEC PACK READ/WRITE RK1-2
G180-0-1
SLOT -1
SHEET 2 OF 2



NOTES:

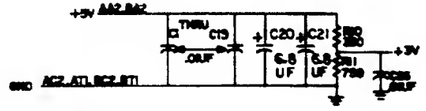
PIN 7 = GND ON E2,E5,E7,E11,E13, E14,E17,E22 PIN 14 = +5V

PIN 14 = GND ON E1,E3,E4,E9, E10,E15,E16 PIN 8 = +5V

PIN 10 = GND ON E8,E12 PIN 5 = +5V

PIN 1 = GND ON E22 PIN 8 = +5V

PIN 8 = GND ON E6, E18, E19 PIN 16 = +5V



2	C20,21	CAP. 6.8UF 35V 20%	1000067	40
1	R2	RESISTOR 4.7K ¼W 5%	1304647	39
1	C22	CAP. .01UF 100V 10% MYLAR	1005754	38
				37
2		HANDLE, FLIP CHIP - MAGENTA	9008337-06	36
A		BOARD	9006732	35
1	E20	I.C. DEC 7404	1905590	34
1	E13, 18, 22	I.C. DEC 74123	1910436	33
7	E1-5, E6, E9	I.C. DEC 7452	1910645	32
1	E7	I.C. DEC 74121	1910236	31
1	E21	I.C. DEC 74145	1910047	30
1	E14	I.C. DEC 7404	.905968	29
2	E15, 19	I.C. DEC 380	1909485	28
2	E8, 11	I.C. DEC 7493	1909056	27
1	E10	I.C. DEC 7410	1905576	26
2	E12, 16	I.C. DEC 7400	1905575	25
1	E17	I.C. DEC 7474	1905547	24
1	Q1	TRANSISTOR DEC 36391	1502762-01	23
1	R15	RES. 18K ¼W 5%	1304465	22
3	R14, 15, 8	RES. 30K ¼W 5%	1302396	21
1	R6	POT. 10K ¾W 10%	13091.3-10	20
1	R5	RES. 22K ¼W 5%	1301808	19
1	R11	RES. 750 ¼W 5%	1301401	18
3	R3, R7, R18	RES. 10K ¼W 5%	1300475	17
2	R4, 10	RES. 330 ¼W 5%	1300295	16
1	R12	RES. 150 ¼W 5%	1300250	15
1	R1	RES. 10C ¼W 5%	1300229	14
1	S1	SWITCH ROTARY 8 POS	1210012	13
1	D3	DIODE A25 (2.4)	1501638	12
3	R6, 16, 17	RES ¼W 5%	1300345	11
1	C26	CAP. .15MF 35V 20% S.TANT	1402186	10
1	C25	CAP. 1.0UF 35V 10% S.TANT	1001776	9
21	C1 thru C19, C26, C31	CAP. .01UF 100V 20% DISC	1001616	8
1	C29	CAP. 470PF 100V 5% D.M.	1000024	7
2	C23, C30	CAP. 130PF 100V 5% D.M.	1000063	6
2	C28, 27	CAP. 100PF 100V 5% D.M.	1000116	5
1		ETCHED CIRCUIT BOARD	9004716	4
		MODULE ECO HISTORY	B-MS-M7709-0-0	3
		ASSY/DRILLING HOLE LAYOUT	B-MS-M7700-0-0	2
		X-Y COORDINATE HOLE LOCATION	B-MC-M7700-0-0	1
QTY	REF. DESIGNATION	DESCRIPTION	DEC PART NO.	ITEM NO.
		PARTS LIST		

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

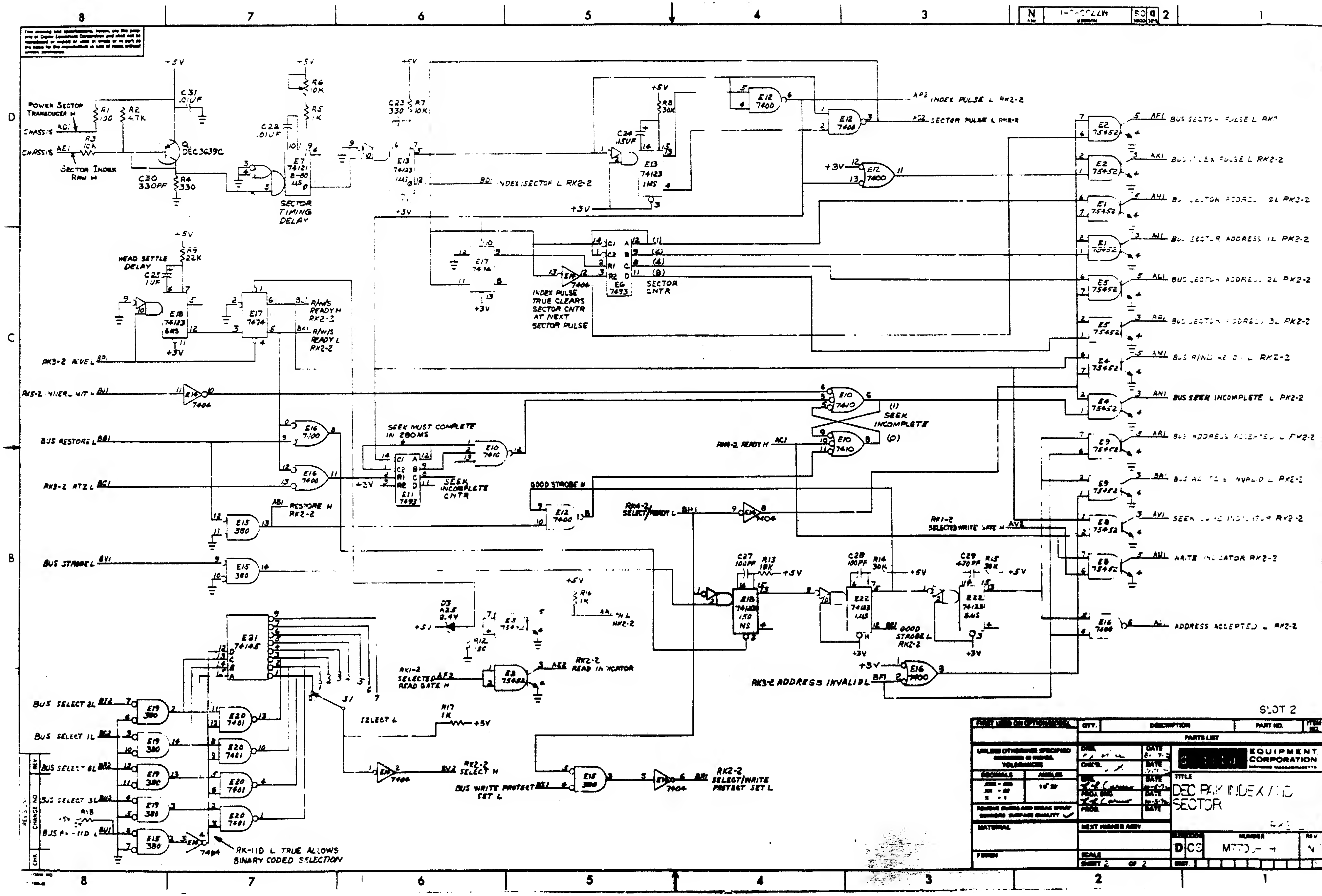
EQUIPMENT CORPORATION

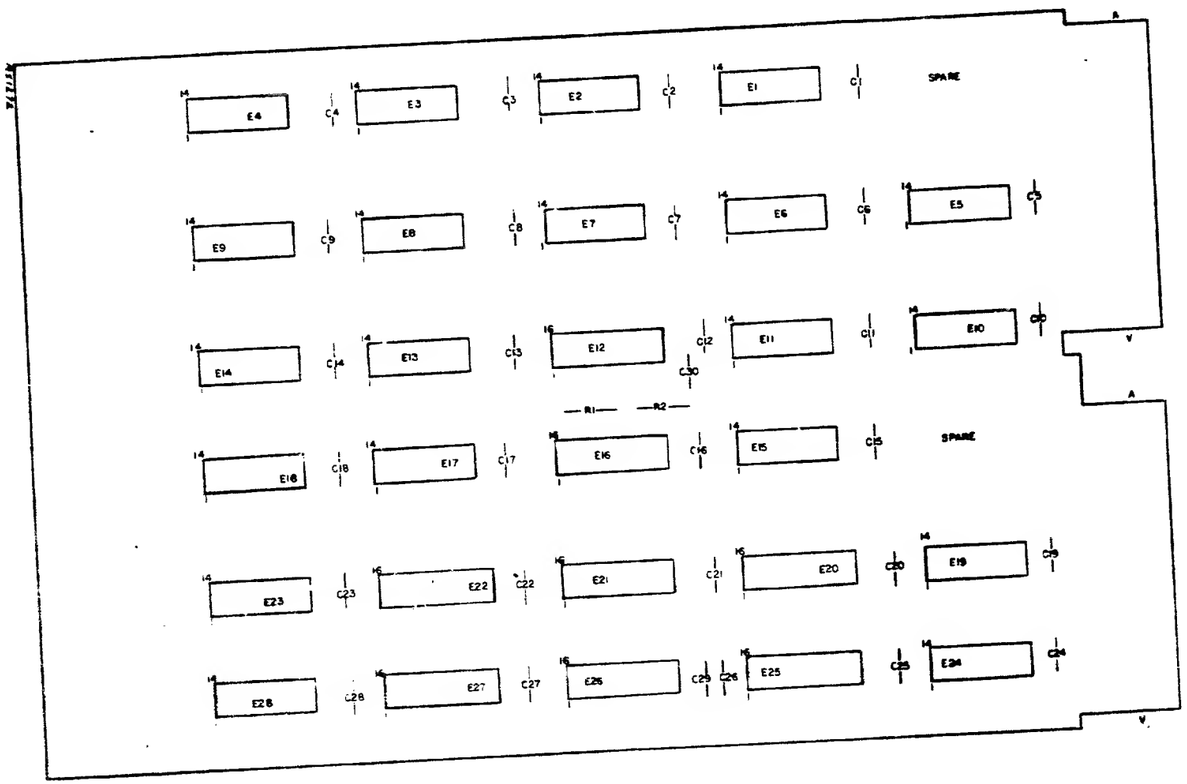
TITLE: RK2-1 DEC PAK INDEX AND SECTOR

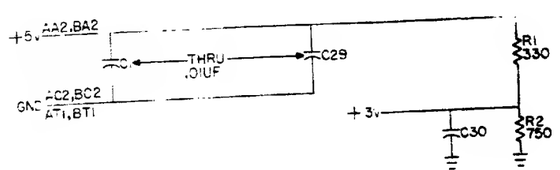
SIZE D | CODE CS | M7700-0-1 | REV N

PRINTED CIRCUIT REV

SHEET 1 OF 2


POWER SECTOR TRANSDUCER H
CHASSIS
SECTOR INDEX RAW H
DEC3639C
SECTOR TIMING DELAY
HEAD SETTLE DELAY
INDEX PULSE L RK2-2
SECTOR PULSE L RK2-2
INDEX/SECTOR L RK2-2
INDEX PULSE TRUE CLEARS SECTOR CNTR AT NEXT SECTOR PULSE
SECTOR CNTR
R/W/S READY H RK2-2
R/W/S READY L RK2-2
BUS RESTORE L
RESTORE H RK2-2
BUS STROBE L
SEEK MUST COMPLETE IN 280MS
SEEK INCOMPLETE CNTR
SEEK INCOMPLETE
GOOD STROBE H
GOOD STROBE L RK2-2
BUS SEEK INCOMPLETE L RK2-2
ADDRESS ACCEPTED L RK2-2
RK3-2 ADDRESS INVALID L
BUS SELECT 2L
BUS SELECT 1L
BUS SELECT 0L
BUS SELECT 3L
SELECT L
RK2-2 SELECT H
BUS WRITE PROTECT SET L
RK2-2 SELECT/WRITE PROTECT SET L
RK-11D L TRUE ALLOWS BINARY CODED SELECTION
SLOT 2
EQUIPMENT CORPORATION
DEC PAK INDEX AND SECTOR





UNLESS OTHERWISE INDICATED:
PIN 8 = +5V -035
PIN 1 = GND
PIN 5 = +5V DEC 7400
PIN 12 = GND
PIN 16 = +5V DEC 74175
PIN 8 = GND
PIN 4 = +5V DEC 7437
PIN 14 = +5V
PIN 7 = GND ALL OTHER ICS

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
4		EYELET #034-7	9006732	22
2		HANDLE, FLIP CHIP - MAGENTA	9008337-06	21
2	E20, E25	I.C. DEC 74175	1910051	20
2	E5, E17	I.C. DEC 7437	1910091	19
2	E19, E24	I.C. DEC 380	1909485	18
2	E18, E16	I.C. DEC 74193	1910018	17
2	E23, E28	I.C. DEC 7486	1910011	16
4	E21, E22, E26, E27	I.C. DEC 7453	1909932	15
2	E7, E11	I.C. DEC 7404	1909858	14
1	E1	I.C. DEC 7402	1909804	13
1	E11	I.C. DEC 7440	1905579	12
2	E15, E16	I.C. DEC 7410	1905578	11
4	E2, E6, E10, E13	I.C. DEC 7400	1905575	10
4	E3, E4, E8, E9	I.C. DEC 7474	1905547	9
1	RC	RES. 750 ¼W 5%	1301401	8
1	R1	RES. 330 ¼W 5%	1302955	7
		GRIPLET	12102444-0	6
30	C1 - C30	CAP. .01UF 100V 20% DISC	1001610	5
1		ETCHED CIRCUIT BOARD	4009720	4
		MODULE ECO HISTORY	B-MH-M7702-0-1	3
		ASSY/DRILLING HOLE LAYOUT	E-AH-M7702-0-1	2
		X-Y COORDINATE HOLE LOCATION	K-CB-M7702-0-1	1

PARTS LIST

ETCH BOARD REV C

REV	REVISIONS	CHANGE NO.	CHK
C	M7702-00001	5/24/73	D. JENSEN

DRN. Roger J. Bourassa 11-17-71
CHK'D
ENG. C.E. Kenniston 12-14-71
PROJ. ENG. C.E. Kenniston 12-16-71
PROD.
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE DEC PACK ADDR ANT
PK3-1

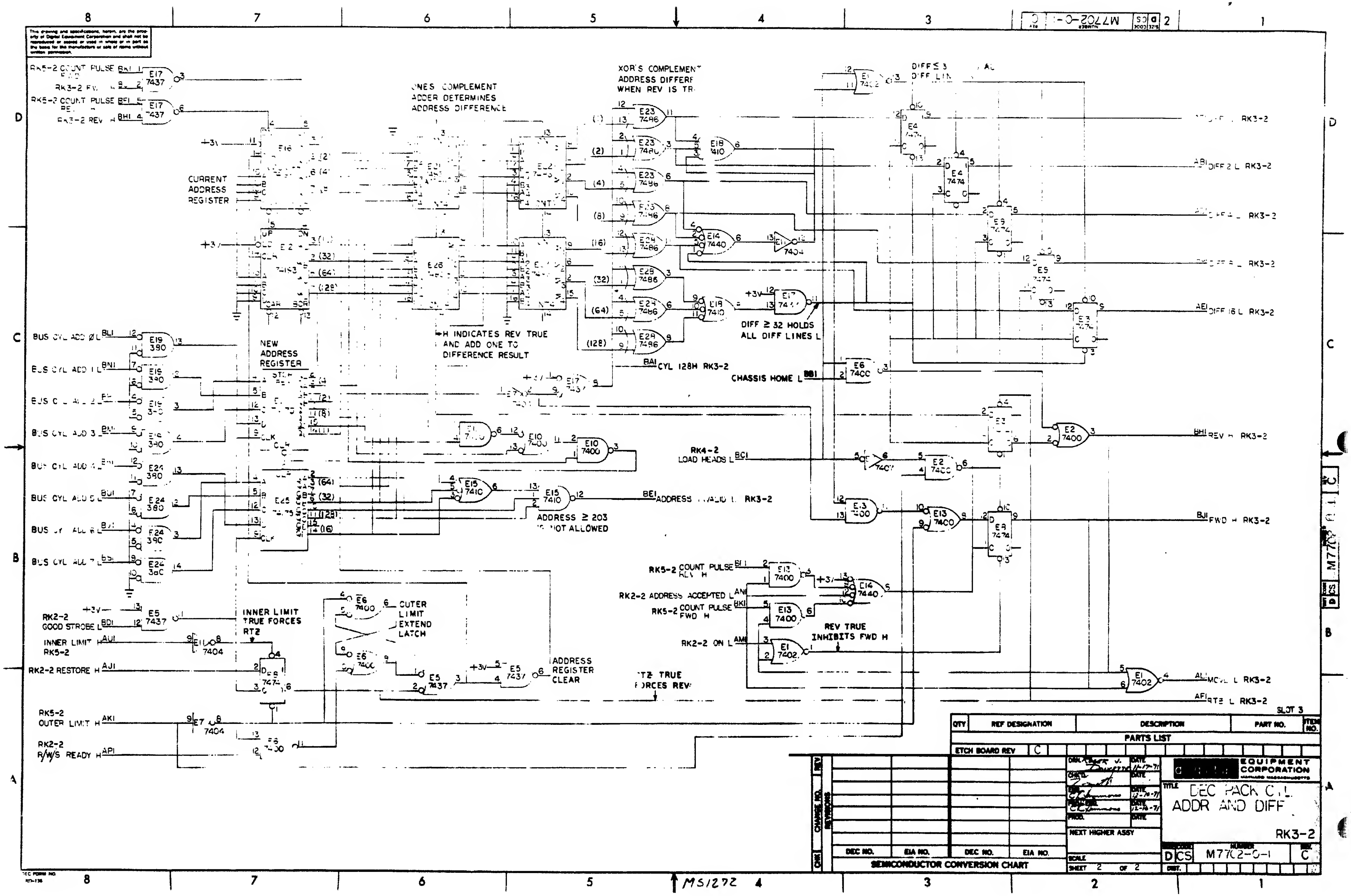
SIZE D CODE CS NUMBER M7702-0-1 REV. C

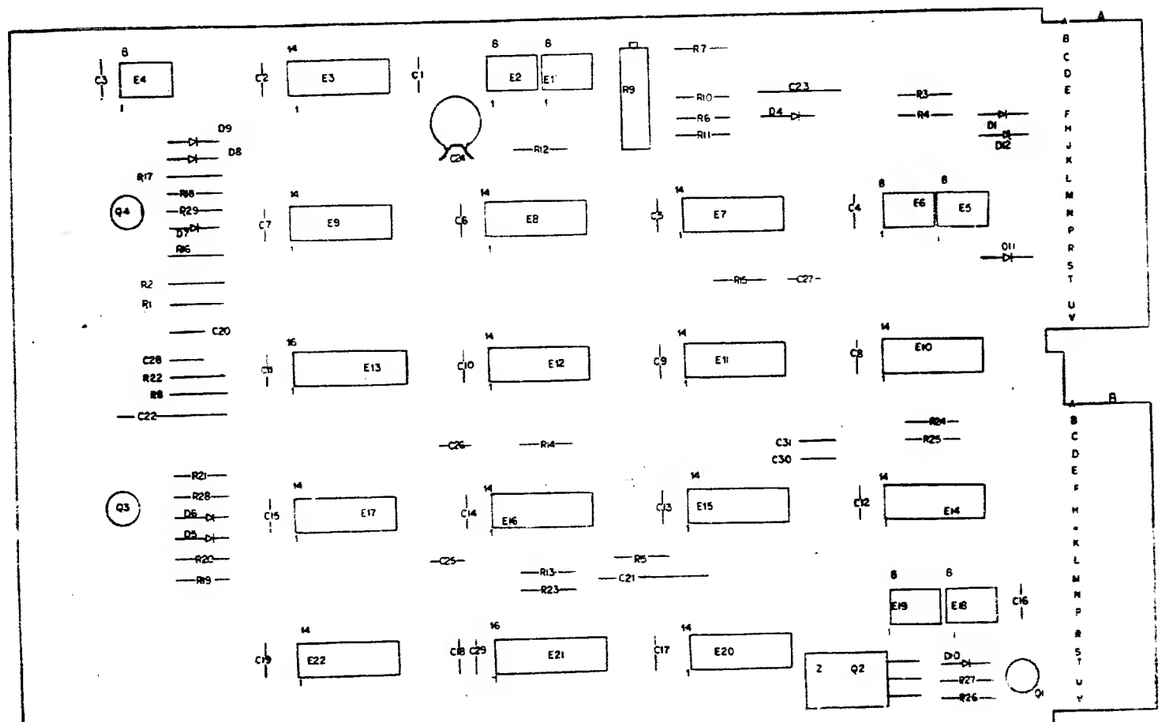
DIST.

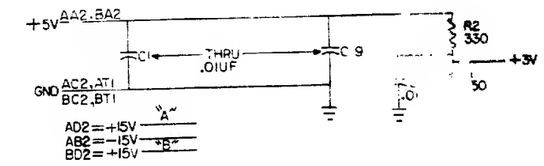
DEC NO. EIA NO. DEC NO. EIA NO.

SEMICONDUCTOR CONVERSION CHART

M7702-0-1 C


CURRENT ADDRESS REGISTER
ONES COMPLEMENT ADDER DETERMINES ADDRESS DIFFERENCE
XOR'S COMPLEMENT ADDRESS DIFFERENCE WHEN REV IS TRUE
NEW ADDRESS REGISTER
H INDICATES REV TRUE AND ADD ONE TO DIFFERENCE RESULT
DIFF ≥ 32 HOLDS ALL DIFF LINES L
CYL 128H RK3-2
CHASSIS HOME L
RK4-2 LOAD HEADS L
ADDRESS INVALID L RK3-2
ADDRESS ≥ 203 IS NOT ALLOWED
RK5-2 COUNT PULSE REV H
RK2-2 ADDRESS ACCEPTED L
RK5-2 COUNT PULSE FWD H
REV TRUE INHIBITS FWD H
RK2-2 ON L
INNER LIMIT TRUE FORCES RT2
OUTER LIMIT EXTEND LATCH
ADDRESS REGISTER CLEAR
RT2 TRUE FORCES REV
RK2-2 GOOD STROBE L
INNER LIMIT H RK5-2
RK2-2 RESTORE H
RK5-2 OUTER LIMIT H
RK2-2 R/W/S READY H
DIFF 2 L RK3-2
DIFF 16 L RK3-2
REV H RK3-2
FWD H RK3-2
MOVE L RK3-2
RT2 L RK3-2
SLOT 3
PARTS LIST
SEMICONDUCTOR CONVERSION CHART
EQUIPMENT CORPORATION
DEC PACK CYL ADDR AND DIFF
RK3-2
D CS M7702-0-1 C
SHEET 2 OF 2
MS1272





ITEM NO	QTY	REF DESIGNATION	DESCRIPTION	PART NO
50	1	C24	CAP .047UF 16V DISC	1009673
49	1	D12	DIODE IN5248B 18V 5%	1110765
48	1		NUT KEP #4	9006557
47	1		SCREW 4-40 X 5/16	9006010-1
46	2		HANDLE, FLIP CHIP - MAGENTA	9008337-65
45	4		EYELET #03L-7	9006732
44	1	E1	I.C. DEC 380/	1910282
43	6	E2, 4, 6, 5, 18, 19	I.C. DEC 75451	1910406
42	2	E21, 13	I.C. DEC 7h123	1910436
41	2	E22, 17	I.C. DEC 7493	1909054
40	2	E5, 15	I.C. DEC 7474	1905547
39	2	E12, 10	I.C. DEC 7410	1905576
38	2	E11, 8	I.C. DEC 7404	1909686
37	1	E20	I.C. DEC 7402	1909004
36	4	E3, 7, 14, 11	I.C. DEC 7400	1905575
35	1	Q2	TRANSISTOR DEC 44C3	1510171
4	1	Q3	TRANSISTOR DEC 653AD	1503409-00
3	1	Q1	TRANSISTOR DEC 2219	1501881
32	1	Q4	TRANSISTOR DEC 6531	1509338
31	1	R9	RES. 10K 3/4W 10% 76PR	1309143-10
30	1	R6	RES. 10M 1/4W 5%	1302666
29	2	R7, 10	RES. 1M 1/4W 5%	1309595
28				
27				
26	5	R17, 5, 22, 23, 8	RES. 10K 1/4W 5%	1300479
25	1	R18	RES. 5.6K 1/4W 5%	1301874
24	1	R11 R21	RES. 4.7K 1/4W 5%	1300447
23	1	R4	RES. 680 1/4W 5%	1304??
22	1	R28	RES. 1.5K 1/4W 5%	1300391
21	9	R12,13,14,29,15,20,24,25,26	RES. 1K 1/4W 5%	1300365
20	1	R3	RES. 750 1/4W 5%	1301401
19	2	R16, 19	RES. 470 1/4W 5%	1300326
18	2	R2, 3	RES. 330 1/4W 5%	1300295
17	1	R27	RES. 100 1/4W 5%	1300229
16			GRIPLETS	12102444-0
-5	2	D6, 7	DIODE 1N759 12V	1110643
14	1	D1	DIODE 1N748 3.9V	1100121
13	1	D2	DIODE 1N746A 3.3V	1104860
12	3	D9, 10, 11	DIODE 1N4001	1102942
11	1	D3	DIODE D670	1102162
10	1	D4	DIODE D664	1100114
9	2	C26, 29	CAP. 470PF 100V 5% D.M.	1000024
8	1	C23	CAP. .15UF 35V 20% TANT	1002180
7	1	C22	CAP. 10 UF 20V 10% TANT	1004813
6	1	C21	CAP. 15UF 20V 10% TANT	1004812
5	25	C1 - 20, 25 - 27, 30, 31	CAP. .01UF 100V 20% DISC	1001610
4	1		ETCHED CIRCUIT BOARD	5009714
3			MODULE ECO HISTORY	B-HH-M770?-0-6
2			ASSY/DRILLING HOLE LAYOUT	E-AH_M7701-0-5
1			X-Y COORDINATE HOLE LOCATION	K-CC-M7701-0-4
ITEM NO	QTY	REF. DESIGNATION	DESCRIPTION	Dec PART NO.

PARTS LIST

REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO

PARTS LIST

IN748 3.9V	SAME	DEC6534D	MPS6534
IN746A 3.3V	SAME	DEC44C3	
IN4001	SAME	IN759 S	SAME
D670	IN3605		
D664	IN3606		
DEC6531	MPS653		
DEC2219	2N2219		
DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

REVISIONS			
REV	CHANGE NO	DATE	CHK
D	M7701-00004	3-24-72	
E	M7701-00002	4-5-72	
F	M7701-00003	4-5-72	
H	M7701-00004	5-17-72	
J	M7701-00006	9-12-72	
K	M7701-00006	9-25-72	
L	M7701-00007	10-5-72	
M	M7701-00008	11-23-72	
N	M7701-00009	2-21-73	

DRN	Roger V. Bucchi	DATE 10-29-71
CHK'D	Nancy Hodge	DATE 11-3-71
ENG		DATE 12-7-71
PROJ ENG.		DATE 12-9-71
PROD		DATE
NEXT HIGHER ASSY		
SCALE		
SHEET 1 OF 2		

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE: DISK ENG. CONTROL + INTERLOCK

SIZE D | CODE CS | NUMBER M7701-C-1 | REV K

DIST

PITCH BOARD REV K

HOME L AR1 — +5V — R15 1K — E11 7404 — C27 .01UF

LOAD SW L BD1 — +5V — R14 1K — C26 .01UF — E16 7400

RUN SW L BL1 — +5V — R7 1K — C25 .01UF — E16 7400

INTERLOCK L AH1 — +5V — R12 1K — C24 .047UF — E8 7404

SECTOR/INDEX L BH2

CLK KILL TP L AS2

NOTE:
THIS TP WAS ADDED PER ECO C0008 FOR AUTO-MODULE TESTING ONLY AND WILL NOT BE ON ETCH REVS A THRU J

SLOW CLOCK 1 SEC — C23 .15UF — +15V "A" — E DEC 301 — −15V — R10 1M — R7 1M — R6 10M — R11 4.7K — D4 IN 748 3.9V

E20 7402 — E22 7493 (CC2, CC1, CR1, CR2, A, B, C, D) — +3V — DISK STOPPED COUNTER

E7 7400 — E5 75451 — −3V — AN1 SPINDLE MOTOR RELAY — R/W/S READY H

SPINDLE MOTOR LATCH

RUN L — E12 7410 — E20 7402 — E17 7493 — +3V — R1 — R2 — START DELAY COUNTER

E16 7400 — E11 7404 — RUN H

R23 10K — +5V — C29 470PF — E21 74123 (CC2, CC1, CR1, CR2, 1.5US) — +3V — RUN STROBE

+15V "B" — D10 IN4001 — R26 1K — Q1 DEC2219 — Q2 DEC 2N3638 — R27 100 — BV1 DOOR UNLOCKING SOLENOID

+3V — E6 75451 — E11 7404 — AL1 LOAD INDICATOR

R9 +5V 10K — R8 10K — +3V — INDEX PULSE L AJ1 — E8 7404 — C22 10UF — E13 74123 (CC2, CC1, CR1, CR2, 45MS) — LOW SPEED — TIME OUT — E9 7474 — SPEED OK FLOP

PINDLE SPEED OK H — E3 7400 — E8 7404 — AP1 LOAD HEADS H

R22 10K — +5V — C28 470PF — E13 74123 (CC2, CC1, CR1, CR2, 1.5US) — LOAD AL L — +3V

+5V — R5 10K — D12 IN5248B 18V — +30V AC — AE1 — D1 D670 — R4 680 — R3 330 — C21 15UF — E21 74123 (CC2, CC1, CR1, CR2, 45MS) — AC LOW — DETECT — E11 7404 — SECTOR L BK1

E4 75451 — AR2 AC LOW — AE2

UNLESS OTHERWISE INDICATED:
PIN7 = GND ON ALL IC'S EXCEPT
PIN14 = +5V
DEC 7493 PIN5 = +5V, PIN10 = GND
DEC 74123 PIN16 = +5V, PIN8 = GND
DEC75451 PIN8 = +5V, PIN4 = GND

+5V — R25 1K — WRITE SW ON BE1 — C31 .01UF — E14 7400

+5V — R24 1K — WRITE SW OFF BF1 — C30 .01UF — E14 7400

OUTER LIMIT H AK1 — E8 7404 — E7 7400 — SET UNSAFE L BA1 — FAULT LATCH — E10 7410 (CC2, CC1, CR1, CR2)

+5V READY FLOP — E15 7474 (CC, CD)

ALI READY H

SELECT AS1 — E10 7410

SELECT/WRITE PROTECT SET BB1 — E15 7474 (CC, CD)

E14 7400

+3V — E6 75451 — AM1 BUS FILE READY

E5 75451 — AN2 FAULT INDICATOR

E18 75451 — BP1 BUS WRITE CHECK — AV2 UNSAFE L

E19 75451 — BN1 READY INDICATOR

BH1 NO PROTECT L

E19 75451 — BU1 BUS WRITE PROTECT STATUS

E19 75451 — BU2 PROTECT INDICATOR

AF1

E2 75451 — JD1 DC LOW L

+5V "B"

D9 IN4001 — AA1 SAFETY RELAY

E2 75451

R19 470 — +15V "B" — R20 1K — Q3 DEC 6534D — R28 1.5K — D5 IN759A 12V — R21 4.7K — −15V — D6 IN746A 3.3V — E12 7410 — DC OK L

E8 7404

R16 470 — −15V — R29 1K — Q4 DEC 6531 — R18 5.6K — D7 IN759A 12V — R17 10K — +5V — D8 D664

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO.
		PARTS LIST		
		ETCH BOARD REV		

REV	CHANGE NO.	REVISIONS	CHK

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

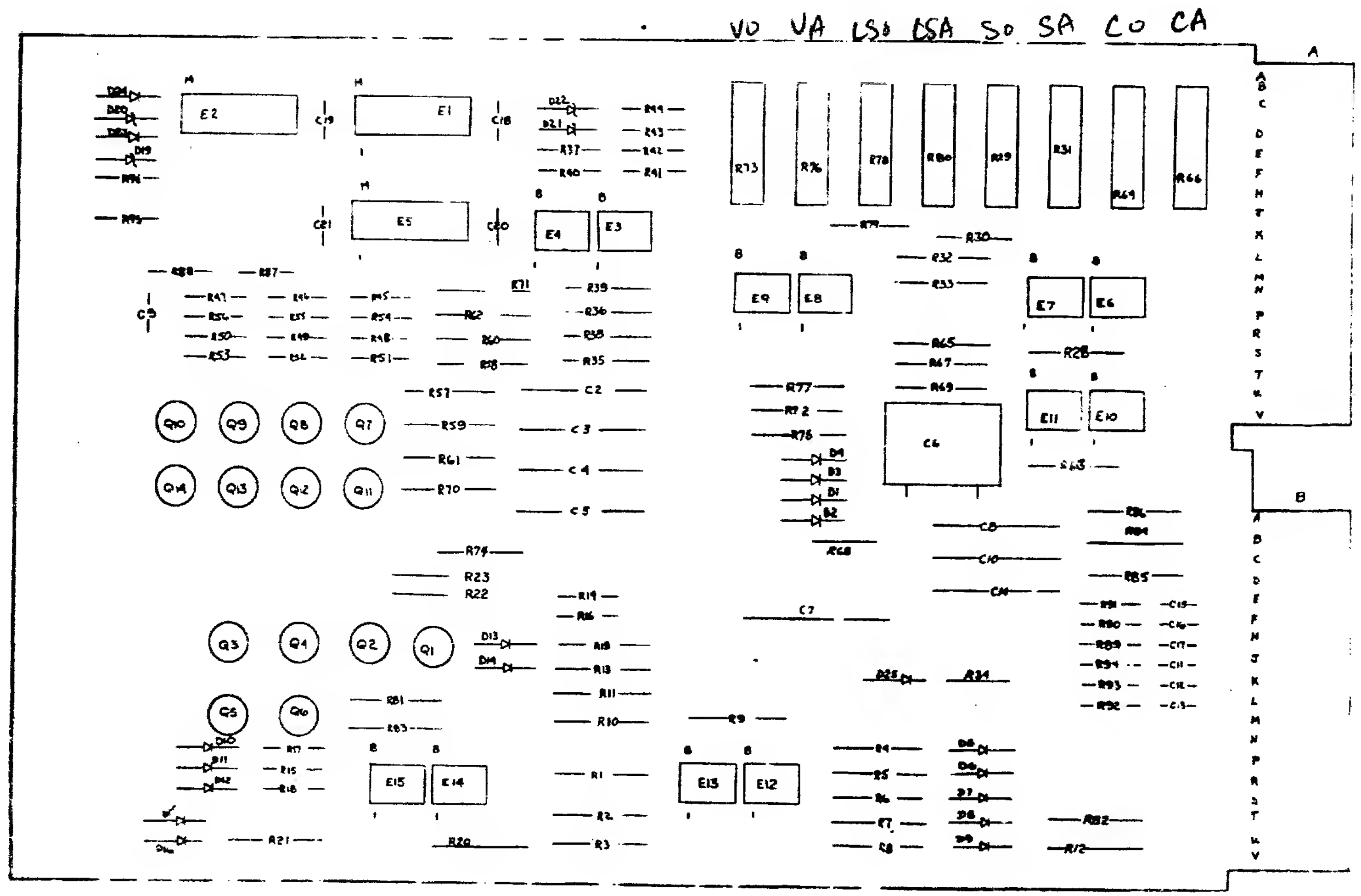
DRN [illegible] DATE 10-29-71
CHK'D Gary Hoare DATE 11-3-71
DES DATE 12-7-71
PROJ. ENGR DATE 1-22-72
MGR. DATE 1/31/72
NEXT HIGHER ASSY

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE RK05 CONTROL + INTERLOCK

SIZE D | CODE C.S | NUMBER M7701-0-1 | REV

SCALE
SHEET 2 OF 2
DIST.



UNLESS OTHERWISE INDICATED.
PIN 14 = +5V, PIN 7 = GND ON ALL IC'S.
EXCEPT LM301 + 72741.

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
3	R28, 63, 77	RES. 1.96K 1/8W 1% MF	1304833	55
1	R74	RES. 1.47 K 1/8W 1% MF	1305108	54
3	R95, 96, 34	RES. 10K 1/4W 5%	1300479	53
A/R		GRIPLET	1210244-0	52
2		HANDLE, FLIP CHIP - GREEN	9008337-01	51
4		EYELET #884-7	9006732	50
10	E6 - E15	I.C. DEC 72741	1910298	49
2	E3, E4	I.C. DEC 301	1910282	48
1	E2,	I.C. DEC 7413	1909989	47
1	E1	I.C. DEC 7404	1909686	46
1	E5	I.C. DEC 7400	1905575	45
8	Q1-4, Q11-14	TRANSISTOR 2N5245	1509681	44
6	Q5-Q10	TRANSISTOR DEC 6534D	1503409-00	43
1	R86	RES. 2.7 1/4W 10%	1309444	42
1	R20	RES. 200 K 1/8W 1% MF	1305336	41
12	R10, 11, 23 [illegible] 83	RES. 19.6K 1/8W 1% MF	1309419	40
1	R7	RES. 11.5K 1/8W 1% MF	1309415	39
1	R21	RES. 1.83K 1/8W 1% MF	1309413	38
1	R75	RES. 24.3 K 1/8W 1% MF	1309418	37
5	R29, 64, 73, 76, 78	RES. 10K 3/4W 10% 76PR	1309143-10	36
3	R31, 66, 80	POT. 2K 3/4W 10% 76PR	1309143-08	35
1	R4	RES. 68.1K 1/8W 1% MF	1305252	34
1	R8	RES. 5.62K 1/8W 1% MF	1305128	33
2	R72, R12	RES. 6.81K 1/8W 1% MF	1304870	32
6	R41, R42, R23, 30, 65, 79	RES. [illegible]	1304841	31
2	R13, R19	RES. [illegible]K 1/8W 1% MF	1304856	30
5	R9, , 57, 59, 61, 70	RES. 10K 1/8W 1% MF	1303312	29
				28
1	R5	RES. 34.8K 1/8W 1% MF	1303156	27
1	R6	RES. 21.5K 1/8W 1% MF	1303155	26
1	R2	RES. 13.3 K 1/8W 1% MF	1302412	25
1	R3	RES. 909K 1/8W 1% MF	1304855	24
1	R22	RES. 100K 1/4W 5%	1302466	23
5	R58, 60, R62, R71, R82	RES. 511 1/8W 1% MF	13024[illegible]	22
1	R88	RES. 750 1/4W 5%	130[illegible]	21
7	R15, 17, 46, 49, 52, 55, 1	RES. 15K 1/4W 5%	1300496	20
5	R18, R47, R50, 53, 56	RES. 3.9K 1/4W 5%	1300444	19
9	R14, 16, 43, 44, 45, 48, 51, 54, 60	RES. 1.5K 1/4W 5%	130039[illegible]	18
3	R37, 40, 87	RES. 330 1/4W 5%	1300295	17
6	R89-94	RES. 22 1/4W 10%	1300188	16
2	R84, R85	RES. 10 1/4W 5%	1300168	15
2	D15, D16	DIODE 1N758A 10V	1100125	14
4	D19 - 22	DIODE 1N746A	110486[illegible]	13
10	D5 - 14	DIODE D664	1100[illegible]4	12
7	D1 - D4, 25, 23, [illegible]	DIODE D662	1100[illegible]3	11
1	C7	CAP. .022 UF 100V 10% MYLAR	1002323	10
1	C6	CAP. 2700 pf 100V MICA	100[illegible]637	9
3	C8, 10, 14	CAP. 15UF 20V 10% S.TANT	1001812	8
11	C9, 11, 12, 13, 15-21	CAP. .01UF 100V 20% DISC	1001610	7
				6
4	C2, 3, 4, 5	CAP. .015UF 50V 2% POLY CARB	1010645	5
1		ETCHED CIRCUIT BOARD	5009388	4
		MODULE ECO HISTORY	B-MH-G938-0-6	3
		ASSY/DRILLING HOLE LAYOUT	E-AH-G938-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-CO-G938-0-4	1

PARTS LIST

ETCH BOARD REV K

SEMICONDUCTOR CONVERSION CHART

DEC NO	EIA NO
6534D	NONE
2N5245	
D662	1N645
D664	1N3606
1N746A	SAME

REVISIONS: CHANGE NO / REV / CHK — G938-00003 / G938-00004 / G938-00005 / G938-0000[illegible]; D. JENSEN

DRN: J. Doucette, DATE 12-8-71
CHKD: DATE 12-9-71
ENG: Bob Jensen
PROJ ENG: Bob Jensen
PROD: DATE
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 2

digital EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS

TITLE: DEC PACK HEAD POSITION SERVO PREAMP

SIZE D, CODE CS, NUMBER G938-0-1, REV L

D TO A CONVERTER

RK3-2 DIFF L BL2 D5 DGG4 R4 26.1K
RK3-2 DIFF E L BP2 D6 DGG4 R5 34.8K
RK3-2 DIFF 4 L BR2 D7 DGG4 R6 21.5K
RK3-2 DIFF 8 L BS2 D8 DGG4 R7 11.5K
RK3-2 DIFF 16 L BT2 D9 DGG4 R8 5.62K

R34 10K 1/4W +15F

REFERENCE D1 DGG2, D2 DGG2, D3 DGG2, D4 DGG2, D25 DGG2, R68 1.5K 1/4W, R1 15K 1/4W, R2 13.3K, R3 9.09K, VA R76 10K 1/4W

RK3-2 FWD H BJ2 R4 5K 1/4W
RK3-2 REV H BK2 R16 5K 1/4W

TP1 BM2 R10 9.6K, R11 19.6K BL2 TP12, E13 72741 INVERTER, R19 4.64K, D13 DGG4, D14 DGG4, R13 4.64K, VELOCITY GENERATOR

LIMITERS IN758A 10V, D15, R12 81K, BU2 RK5-2 POWER AMP DRIVE .7V P-P, RB2 511

TP FWD, Q1 2N5245, Q2 2N5245, R21 3.83K, AMP

R15 15K 1/4W, D10 DGG4, R18 3.9K 1/4W -15F, D12 DGG4 TO REV C, Q5 G534D, R17 15K 1/4W, D11 DGG4, Q6 G534D, Q3 2N5245, Q4 2N5245, R22 100K 1/4W BF1 TP9, R23 75K 1/4W POSITION SIGNAL

SIN POSITION TP-10VP-P, TP2 AM1, CHASSIS SIN POSITION AN1, R28 1.76K, R29 10K, R30 75K 1/4W, SD, SA, -15A

45° LAG R35 19.6K, R36 9.6K, E4 DEC301, R43 1.5K 1/4W, R42 75K 1/4W, R37 330 1/4W, OVER DRIVEN AMP

AL1 TP3, R32 19.6K, R33 19.6K, E7 72741 INVERTER, CCS POSITION TP4 AS1, CHASSIS -COS POSITION AU1, R63 1.96K, R64 10K, R65 75K 1/4W, CO, CA

AR1 TP5, R66 19.6K, R67 19.6K, E11 72741 INVERTER

R38 19.6K, R39 19.6K, E3 DEC301, 45° LEAD, R41 75K 1/4W, R40 330 1/4W, AE1 TP7

C2 .015UF, R57 10K, R58 511, C3 .015UF, R59 10K, R60 511, C4 .015UF, R61 10K, R62 511, C5 .015UF, R70 10K, R71 511, DIFFERENTIATORS

TP+SO, 2N5245 Q14, TP-SO, 2N5245 Q13, TP-CO, 2N5245 Q12, TP+CO, 2N5245 Q11, SAMPLING FET'S

FWD ORDER	SEEK FET
1	Q13
2	Q11
3	Q14
4	Q12

D22 IN746A, C21 IN746A, E1 7404, E2 7404, E3 7400, E5 7400, E5 7400

R45 1.5K 1/4W, R48 1.5K 1/4W, R51 1.5K 1/4W, R54 1.5K 1/4W

R46 15K 1/4W, R47 3.9K 1/4W, Q9 G534D, R49 15K 1/4W, R50 3.9K 1/4W, Q8 G534D, R52 15K 1/4W, R53 3.9K 1/4W, Q8 G534D, R55 15K 1/4W, R56 3.9K 1/4W, Q7 G534D

TACHOMETER AMP, C6 2700 pF, R75 2.5K, R72 1.81K, R73 10K 3/4W VO, R74 1.47K, TP8 VELOCITY TP, AH1

R61 19.6K, E15 72741 INVERTER, BV2 TP11

CHASSIS LIMIT AK1, C7 .022 UF, R77 1.96K, R78 10K 3/4W LSO, R79 75K 1/4W, R80 2K 3/4W LSA, LIMITS TP AJ1 TP10

NOTE:
IN746A ZENER DIODES ARE 3.3V
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/8W

D23 DGG2, R95 10K, D19 IN746A, D24, D662, D20 IN746A, R96 10K, E2 7413 SCHMITT TRIGGER

RK5-2 AA COUNT PULSE FWD H
RK5-2 AC1 COUNT PULSE REV H
RK5-2 AD1 OUTER LIMIT H
RK5-2 AB1 INNER LIMIT H

AC2, AT1, BC2, BT1, C18 .01UF THRU C21 .01UF GND
R86 2.7 2W, C8 15UF, R87 330 1/4W, R88 750 1/4W, C9 .01UF

R84 10 1/2W, C10 5UF, R94 22 1/4W, C11 .01UF, R93 22 1/4W, C12 .01UF, R92 22 1/4W, C13 .01UF

R85 10 1/2W, C14 15UF, R91 22 1/4W, C15 .01UF, R90 22 1/4W, C16 .01UF, R89 22 1/4W, C17 .01UF

SLOT 5

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

DEC NO.	EIA NO.	DEC NO	EIA NO.

SEMICONDUCTOR CONVERSION CHART

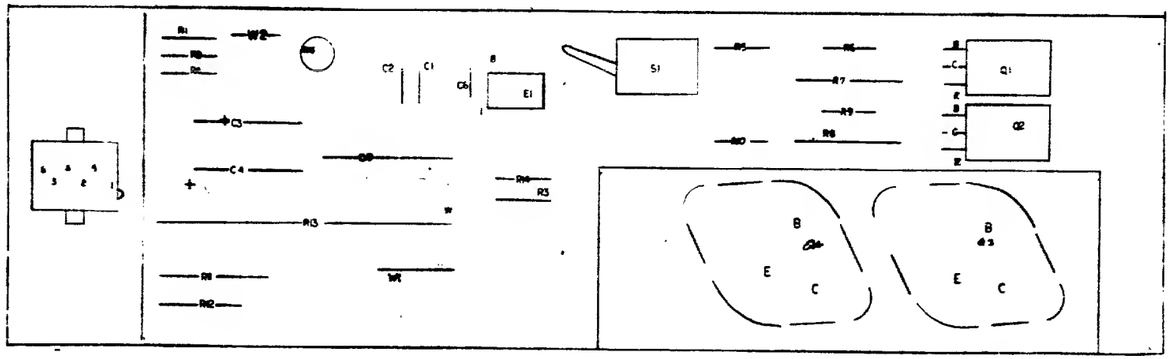
REVISIONS: CHK | CHANGE NO. | REV

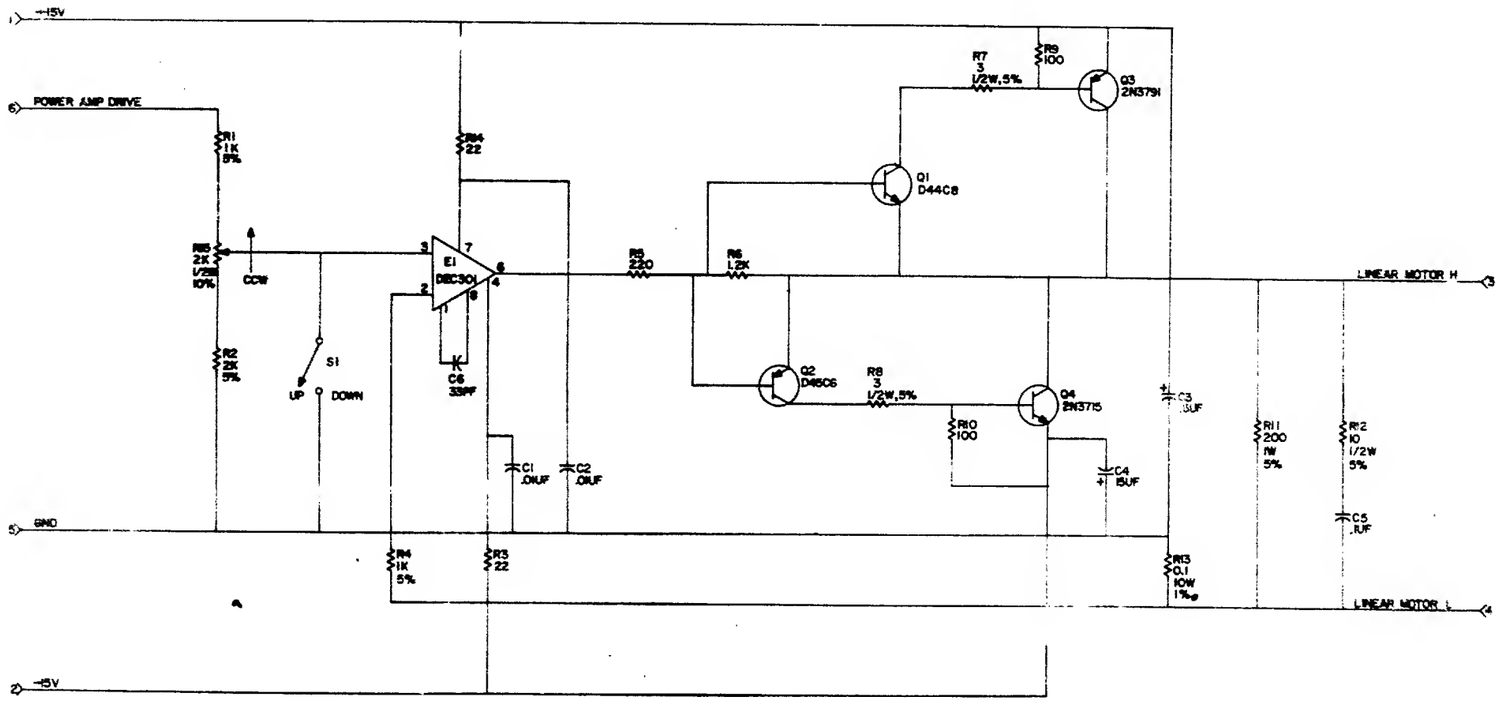
DRN. Roger V. Bruette DATE 12-8-71
CHK'D. W. Hurd DATE 12-9-71
ENG. Dick Johnson DATE 1st Dec 71
PROJ. ENG. Dick Murphy DATE 3rd Dec 71
PROD. J. Mahlberg DATE 12/22/71
NEXT HIGHER ASSY
SCALE
SHEET 2 OF 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE DEC PACK HEAD POSITION SERVO PREAMP RK5-2

SIZE D CODE CS NUMBER G938-0-1 REV L DIST.





UNLESS OTHERWISE INDICATED:
RES. ARE 1/4W, 10%
R13 IS A CURRENT SAMPLING RES.

TRANSISTOR & DIODE CONVERSION CHART

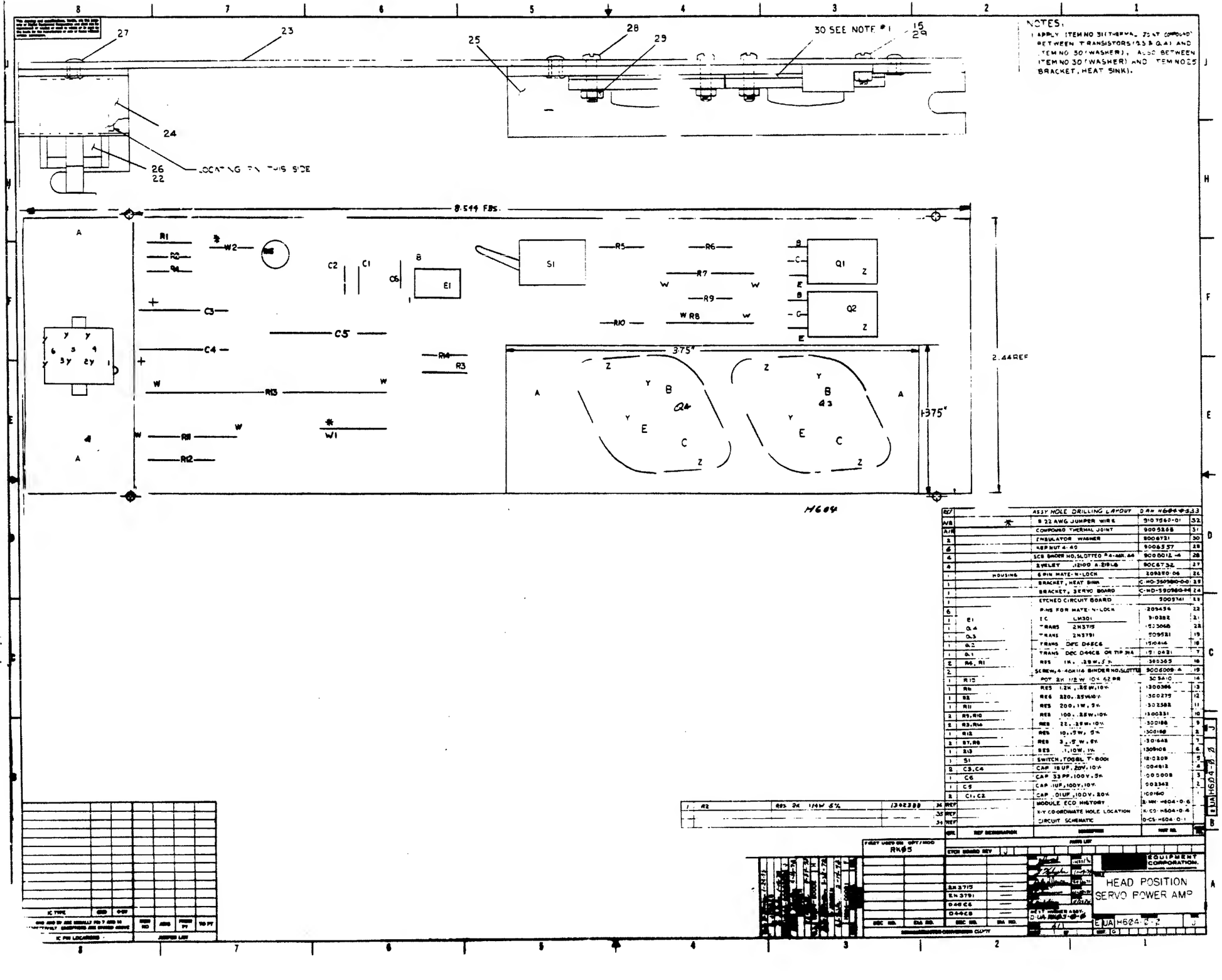
EEC	EBA	EEC	EBA

DIGITAL EQUIPMENT CORPORATION

TITLE DECPAK HEAD POS. SERVO PWR. AMP.

SIZE D | CODE CS | H604-0-1 | REV -

DRAWING CURRENT REV. J



NOTES:

1. APPLY ITEM NO 31 (THERMAL JOINT COMPOUND) BETWEEN TRANSISTORS (Q3 & Q4) AND (ITEM NO 30 (WASHER)). ALSO BETWEEN (ITEM NO 30 (WASHER)) AND (ITEM NO 25 BRACKET, HEAT SINK).

REF				
		ASSY HOLE DRILLING LAYOUT	D-AN-H604-0-3-3	
A/R		22 AWG JUMPER WIRE	910-7560-01	32
A/R		COMPOUND THERMAL JOINT	9005368	31
2		INSULATOR WASHER	9006721	30
6		KEP NUT 4-40	9006357	29
4		SCR BINDR NO. SLOTTED 4-40 X .44	9006012-4	28
4		EYELET .12100 X .218 LG	9006732	27
1	HOUSING	6 PIN MATE-N-LOCK	209330-06	26
1		BRACKET, HEAT SINK	C-HD-350960-0-0	25
1		BRACKET, SERVO BOARD	C-HD-350960-0-0	24
1		ETCHED CIRCUIT BOARD	9005741	23
6		PINS FOR MATE-N-LOCK	209436	22
1	E1	IC LM301	910282	21
1	Q4	TRANS 2N3715	150368	20
1	Q3	TRANS 2N3791	209581	19
1	Q2	TRANS DEC D46C6	150416	18
1	Q1	TRANS DEC D44C8 OR TIP 31A	910421	17
2	R4, R1	RES 1K, .25W, 5%	300365	16
2		SCREW, 4-40X1/4 BINDER NO. SLOTTED	9006009-A	15
1	R15	POT 2K 1/2 W 10% 62 PR	3C3A10	14
1	R6	RES 1.2K, .25W, 10%	1300386	13
1	R8	RES 220, .25W 10%	1300279	12
1	R11	RES 200, 1W, 5%	1302382	11
2	R9, R10	RES 100, .25W, 10%	1300331	10
2	R3, R14	RES 22, .25W 10%	1300188	9
1	R12	RES 10, 2W, 5%	1300169	8
2	R7, R8	RES 3 ± .5 W, 6%	1301648	7
1	R13	RES .1, 10W, 1%	1305908	6
1	S1	SWITCH, TOGGL T-800	181-0309	5
2	C3, C4	CAP 15 UF, 20V, 10%	004812	4
1	C6	CAP 33 PF, 100V, 5%	005008	3
1	C5	CAP .1UF, 100V, 10%	002342	2
2	C1, C2	CAP .01UF, 100V, 20%	100960	1
		MODULE ECO HISTORY	D-MN-H604-0-6	
		X-Y CO-ORDINATE HOLE LOCATION	D-CO-H604-0-4	
		CIRCUIT SCHEMATIC	D-CS-H604-0-1	
1	R2	RES 2K 1/4W 5%	1302388	34 REF
				33 REF
				34 REF
ITEM	REF DESIGNATION	DESCRIPTION	PART NO.	

FIRST USED ON ASSY / MOD	RK05		
ETCH BOARD REV	J		
2N3715	—		
2N3791	—		
D46C6	—		
D44C8	—		
DEC NO.	EIA NO.	DEC NO.	EIA NO.

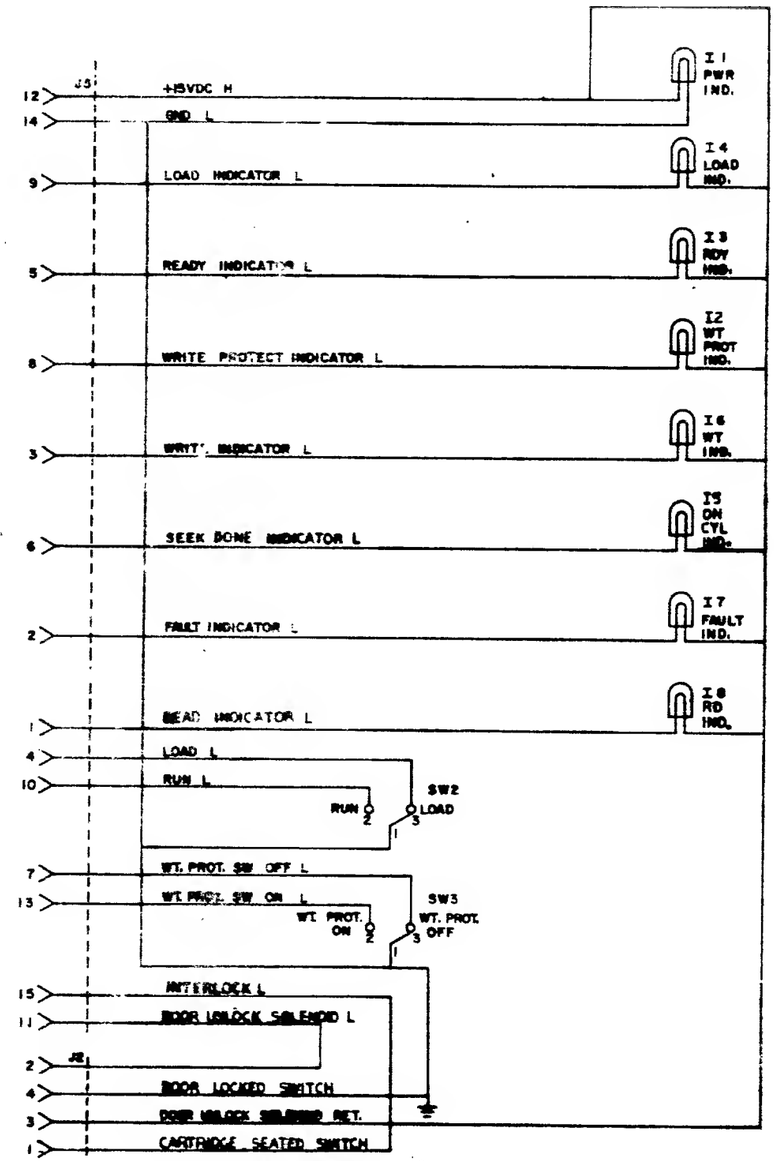
IC TYPE	GND V+
IC PIN LOCATIONS	

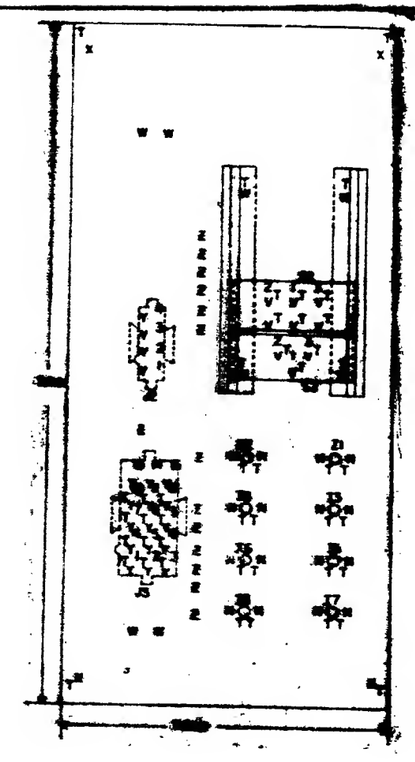
FROM NO.	JUMPER LIST			TO PT

EQUIPMENT CORPORATION.

HEAD POSITION SERVO POWER AMP

E UA H604 0 J





REVISIONS			
CHK	CHG NO.	REV	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

EQUIPMENT CORPORATION

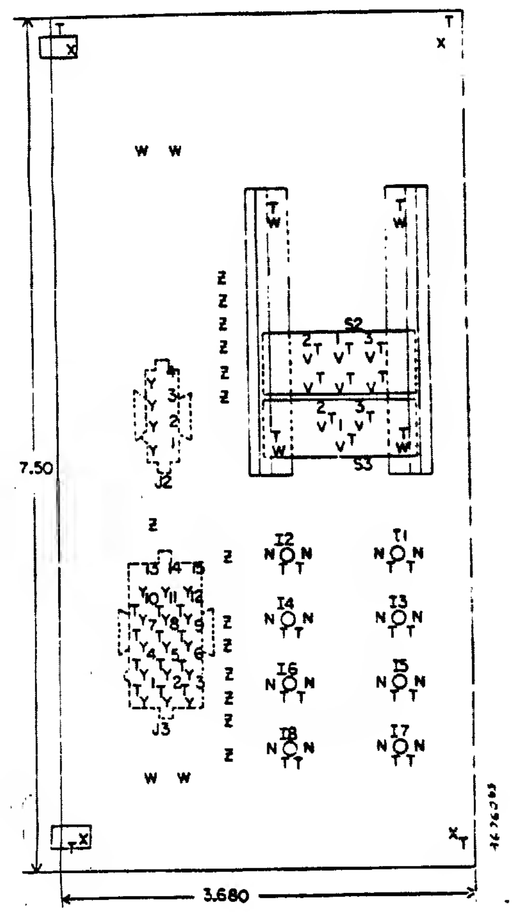
TITLE: RK05 CONTROL PANEL

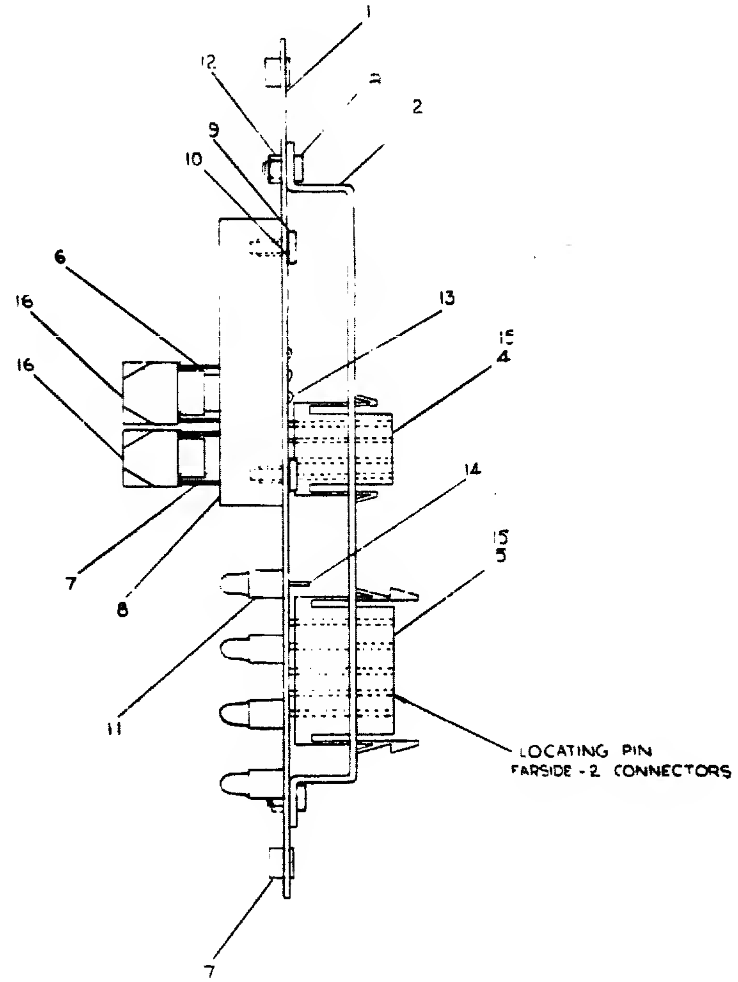
RK7-1

SIZE	CODE	NUMBER	REV
C	05	5409698-0-1	D

PRINTED CIRCUIT REV. D

SIZE	CODE	NUMBER	REV
C	05	5409698-0-1	D





QTY.	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		ASSY/DRILLING HOLE LAYOUT	D AH 5409698-[illegible]	19
4		SCR PHL PAN HD #4 40 × 5/16 [illegible]	90080 [illegible]	[illegible]
4		NUT CLIP #6 32	9006423	7
2		SWITCH BUTTON	1205 7-07	[illegible]
19		PIN SOCKET MATE-N-LOCK	1209456	15
6		TERMINAL SOLDERLESS	9007812	14
16	R	EYELET FEED THROUGH	9007791	[illegible]
4		NUT KEPS #4-40	90065[illegible]	[illegible]
8	I1, I2, I3, I4, I5, I6, I7, I8	LAMP	1209163	11
4		LOCK WASHER INTERNAL 6-32	9006633	[illegible]
4		SCREW PHL PAN HEAD 6-32 × 5/16 LG	90060[illegible]	9
2		SWITCH MOUNTING BAR	B MD-550986-[illegible]-0	6
	S3	SWITCH, ROCKER	1205379	7
1	S2	SWITCH, ROCKER	1205394	[illegible]
1	J3	HOUSING, SOCKET MATE-N-LOCK 15 PIN	1209350-15	5
1	J2	HOUSING, SOCKET MATE-N-LOCK 4 PIN	1209350-04	4
				3
1		CONNECTOR BRACKET	C MD-[illegible] 982330 0	2
1		ETCHED CIRCUIT BOARD	5009597	1
REF		MODULE ECO HISTORY	B MH 5409698-0-0	
REF		X-Y CO-ORDINATE HOLE LOCATION	A CD 5409698-0-4	
REF		CIRCUIT SCHEMATIC	E CS 5409698-0-1	

PARTS LIST

ETCH BOARD REV D

FIRST USED ON: RK05

[redacted] EQUIPMENT CORPORATION

TITLE: CONTROL PANEL RK05

NEXT HIGHER ASSY D-JA-RK05-0-0

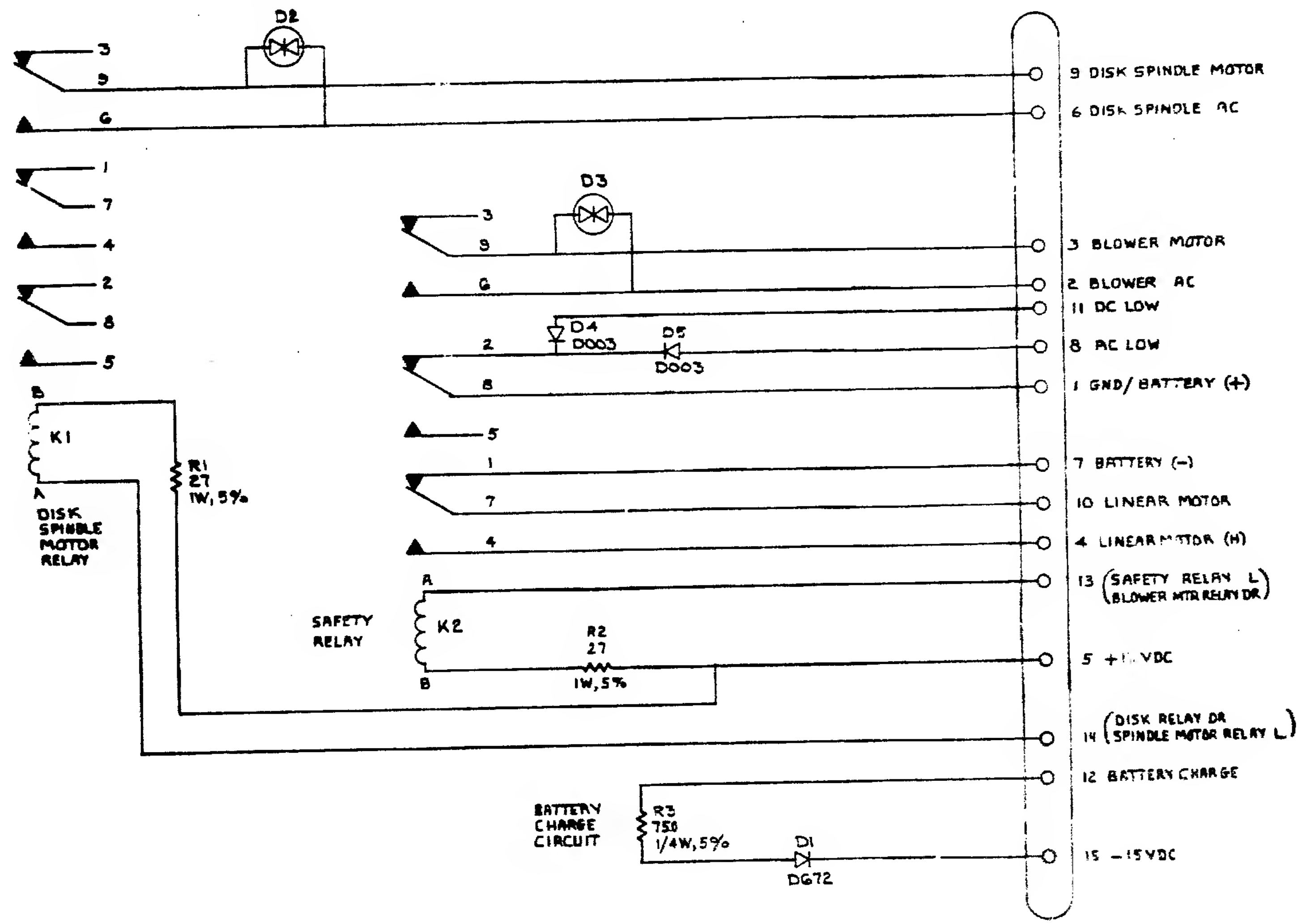
DEC NO. | EIA NO. | DEC NO. | EIA NO.

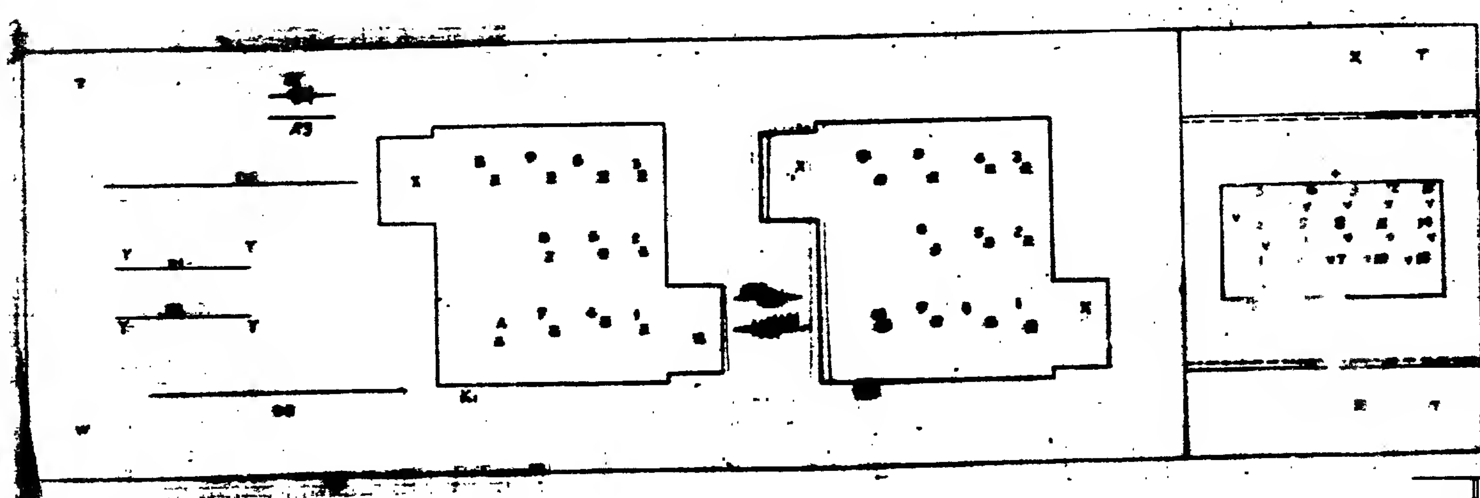
SEMICONDUCTOR CONVERSION CHART

JUMPER LIST

ITEM NO. | WIRE | FROM PT | TO PT

NOTE:
1. RELAY CONTACTS ARE SHOWN IN THE DE-ENERGIZED POSITIONS.
2. SAFETY RELAY L AND BLOWER MTR RELAY DR ARE THE SAME SIGNAL.
3. SPINDLE MOTOR RELAY L AND DISK RELAY DR ARE THE SAME SIGNAL.





SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.	DEC NO.	EIA NO.
D003	IN994		
D672	IN3653		

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

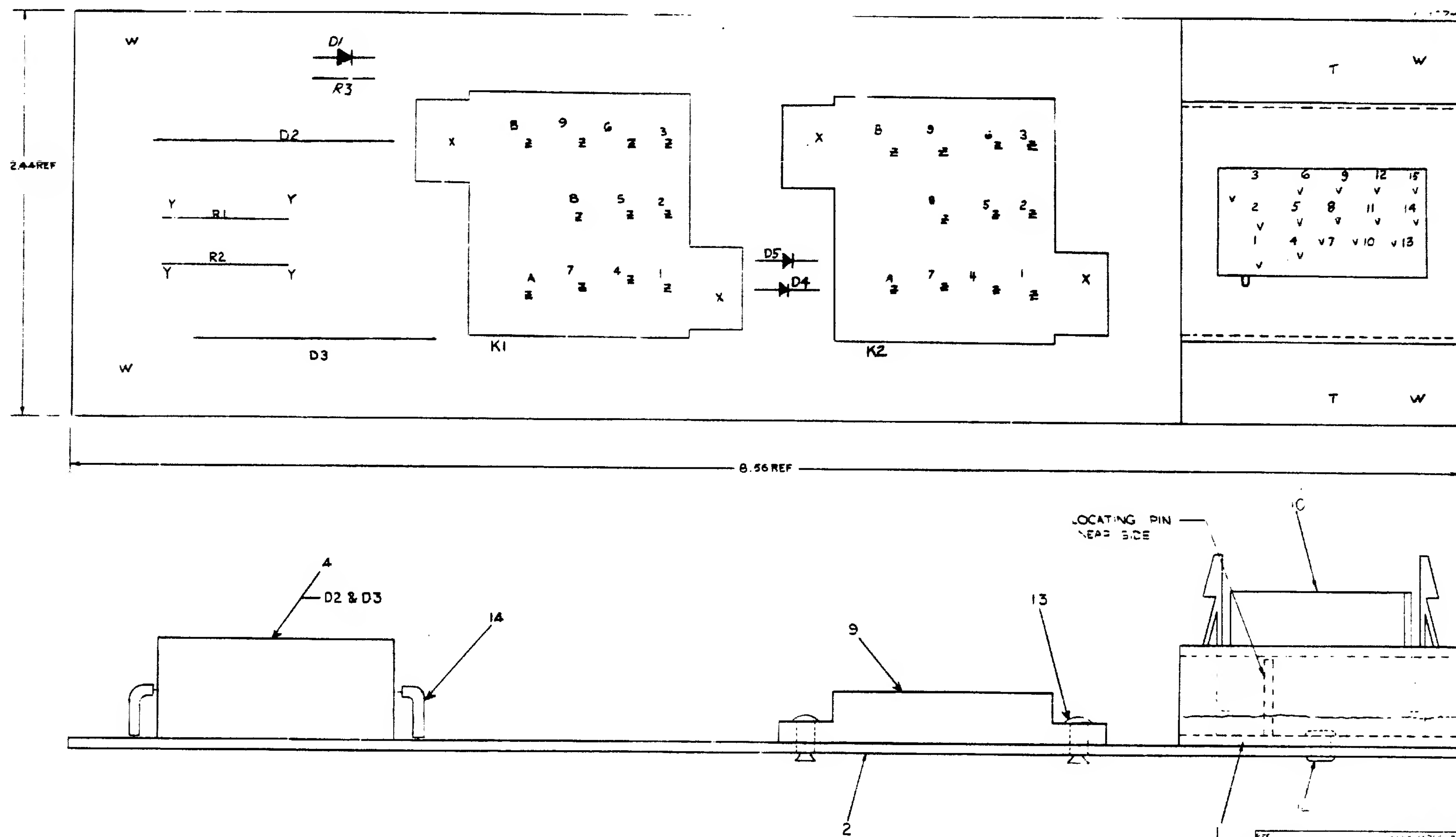
ETCH BOARD REV E

DIGITAL EQUIPMENT CORPORATION, MAYNARD MASSACHUSETTS

TITLE: DEC PACK MOTOR RELAYS

SIZE D | CODE CS | NUMBER 5409574-0-1 | REV. E

D CS 5409574-0-1 E



QTY.	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		TEST HOLE DRILLING LAYOUT	[illegible]	
A/R		TUBING #18AWG TEFLON	91C7279-11	14
4		RIVET, POP .125 DIA X .242 LG	9006458	13
2		EYELET .120 OD X .159 LG	9006740	[illegible]
15		PINS FOR MATE-N-LOCK	[illegible]9456	[illegible]
1		5 PIN MATE-N-LOCK	[illegible]	10
2		RELAY SOCKET	[illegible]684	[illegible]
2	K1 K2	RELAY GP 3R25AD1000	[illegible]683	[illegible]
2	R1 R2	RESISTOR 27 W 5%	1301516	[illegible]
1	R3	RESISTOR 750 1/4W 5%	1301401	[illegible]
1	D1	DIODE D672	[illegible]52773	[illegible]
2	D2, D3	[illegible] SUPPRES [illegible]	[illegible]00106	[illegible]
2	D4, D5	DIODE GER D003	[illegible]00100	[illegible]
1		ETCHED CIRCUIT BOARD	5009373	[illegible]
REF		MODULE ECO HISTORY	[illegible]	
1		BRACKET MOTOR RELAY	[illegible]	
REF		X-Y COORD HOLE LOCAT	[illegible]4095740[illegible]	
REF		CIRCUIT SCHEMATIC	[illegible]4095740[illegible]	

PARTS LIST

ETCH BOARD REV E

CAUTION
CHANGE COULD AFFECT U.L. LISTING

FIRST USED ON: RK05

DEC NO.	EIA NO.
D-672	1N3653
D-003	1N34

SEMICONDUCTOR CONVERSION CHART

ITEM NO.	MFG.	FROM PT.	TO PT.

JUMPER LIST

D. JENSEN

4095740

DIGITAL EQUIPMENT CORPORATION

TITLE: DEC-[illegible] MOTOR [illegible]

NOTES:

1. SAFETY RELAY L AND BLOWER MTR RELAY DR ARE THE SAME SIGNAL.
2. SPINDLE MOTOR RELAY L AND DISK RELAY DR ARE THE SAME SIGNAL.

INTERFACE CABLE

CONTROLLER

FILE READY
HEAD SELECT L
WRITE PROTECT STATUS L
ERASE GATE L
WRITE CHECK L
SEEK INCOMPLETE L
R/W/S READY L
WRITE GATE L
STROBE L
SELECT 0 L
ADDRESS INVALID
SELECT 1 L
ADDRESS ACCEPTED L
SELECT 2 L
READ CLOCK
READ DATA
SELECT 3 L
WRITE DATA AND CLOCK L
SECTOR PULSE L
CYLINDER ADDRESS 0 L
CYLINDER ADDRESS 1 L
CYLINDER ADDRESS 2 L
CYLINDER ADDRESS 3 L
CYLINDER ADDRESS 4 L
CYLINDER ADDRESS 5 L
CYLINDER ADDRESS 6 L
CYLINDER ADDRESS 7 L
INDEX PULSE L
SECTOR ADDRESS 0 L
SECTOR ADDRESS 1 L
SECTOR ADDRESS 2 L
SECTOR ADDRESS 3 L
WRITE PROTECT SET L
RESTORE L
READ GATE L
AC LOW
DC LOW
HIGH DENSITY L

LOGIC ASSEMBLY

GRN
ORN/BLK
RED/WHT
GRN/BLK
BLK/WHT
ORN
BLU/BLK
RED
BLK
GRN/WHT
BLU/WHT
RED/BLK
BLU
WHT/BLK
WHT
BLK/WHT
RED/WHT
RED/BLK
GRN
ORN/BLK
WHT
ORN
BLK
RED

TB2

	GRN/BLK	3	
	GRN/WHT	1	
	WHT/BLK	2	
	BLU	5	GRY
	BLU/BLK	6	VIO
	BLU/WHT	4	YEL
	BLK	7	BLK/WHT
		8	ORN/WHT
		9	BLK

CONTROL PANEL

READ IND	1	J3
FAULT IND	2	
WRITE IND	3	
LOAD SW L	4	
READY IND	5	
SEEK DONE IND L	6	
WRITE PROT SW OFF	7	
WRITE PROT IND	8	
LOAD IND	9	
RUN SW L	10	
DOOR UNLOCK SOLENOID L	11	
+15V	12	
WRITE PROT SW ON	13	
GND	14	
INTERLOCK L	15	

DOOR UNLOCK SOLENOID
WHT
WHT
CARTRIDGE SEATED
GRY/ORN
GRY/YEL
J2
DOOR LOCKED
GRY/RED
SW1
SW2

LINEAR TRANSDUCER

COS H	3	GRN
COS L	4	ORN
SIN H		BLU
SIN L	2	YEL
LIMIT H	5	GRY
LIMIT L	6	BRN
HOME L		
+5 BULB	9	WHT/RED OR WHT
GND	5	WHT/BLK OR WHT

TB1

RED

POWER SECTOR TRANSDUCER
SECTOR INDEX RAW
GROUND
BATTERY (-)

GRN
BLU
RED DOT
BLK DOT
LED
WHT
SECTOR TRANSDUCER

LINEAR MOTOR
POSITIONER COIL
RED
BLK
HEADS
MAGNET AND HOUSING
ORN/WHT
SW3
HOME
BLK
BLK/WHT
RED
NO1
NO2
NO3
NO4

LINEAR MOTOR H
LINEAR MOTOR L
BLOWER MOTOR
BLOWER AC
DISK SPINDLE MOTOR
DISK SPINDLE AC
D1
JUMPER AC HI
GRY/WHT
GRY/RED

J1 J5 J4 J3 J2

POWER SUPPLY ASSY. H743

LINE CORD AC INPUT
WHT
GRN
BLK
AC LOW
DC LOW

FOR 115V JUMPER 1&2 (RED) 3&4 (WHT)
FOR 230V JUMPER 2&3 (RED)

J6

GROUND
BATTERY (+)
BLOWER AC
BLOWER MOTOR
DISK SPINDLE AC
BATTERY (-)
AC LOW
DISK SPINDLE MOTOR
LINEAR MOTOR H
DC LOW
BATTERY CHARGE

TB4
GRN
RED
WHT
C1
RED
RED
BLK
GRY/GRN
R1 ONLY CLOSED DURING START
MC
BLOWER MOTOR
GRN
ORN
BLU
RED
BLU
M1
YEL
START DISK SPINDLE MOTOR

(SPINDLE MTR RELAY L, DISK RELAY DR)
(SAFETY RELAY L, BLOWER MTR RELAY DR)

P6
BLK
BLK
RED
GRY/ORN
ORN
RED
BRN
RED
GRY/WHT
GRY/YEL
GRY/BLU
WHT/RED
VIO
YEL
BLU

MOTOR RELAY BOARD 54●9474

P7
ORN
BLU
GRY/ORN
GRN
BLK
GRY
+15
-15
LINEAR MOTOR L
GROUND
POWER AMP DRIVE

POWER AMPLIFIER BOARD H634

LINEAR MOTOR H
+15
-15

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: XXX ± .005, XX ± .02, X ± .1
ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. [illegible] DATE 9-24-71
CHK'D [illegible] DATE 9-29-71
ENG [illegible] DATE 9/30/71
PROJ/ENG [illegible] DATE 10/5/71
PROD [illegible] DATE 3/3/72

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: C-ASSIS WIRING RK05

NEXT HIGHER ASSY.: B-DD - RK05-7
SCALE: NONE
SHEET OF

SIZE D | CODE BD | NUMBER RK05-0-1 | REV B

DIST.

DRAWN [illegible] DATE [illegible]
CHECKED [illegible] DATE [illegible]

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

MADE BY DATE G. Schneider	CHECKED DATE 8/17/72	SECTION
ENG DATE 8/17/72	PROD DATE 8/17/72	ISSUED SECT.

LEGEND

D DOCUMENT
D DOCUMENT CHANGE NOTICE
P ER PE ASCII
PE PAPER PE BINARY
PM PAPER PE READ-IN-MODE

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY/VARIATION: All RK11 RK05's for all	All RK8E RK05's for all						KIT CHECK BY ____ DATE ____	INSTALLATION CHECK BY ____ DATE ____
1	RK05-0	Customer Print Set (B-DD-RK05-0 Sheet one only)	1	1							
~~2~~	~~DEC-RK05-IPB-1~~	~~ILLUSTRATED PARTS BREAK DOWN FOR RK05~~	~~1~~	~~1~~							
3	DEC-00-RK05-DA	Maintenance Manual	1	1							
4	BC 11A-6	Unibus Cable 6 feet	1	1							
5	2200007	Head Cleaning Kit	1	1							
6	3010350-00	Disk Cartridge 12 Sector	1	0							
7	3010350-02	Disk Cartridge 16 Sector	0	1							
8*	A-AD-7009276-0-0	Mounting Hardware KIT	1	1							
9*	1209152-0-2 REF	Slide Chassis (Use set that was issued to Assy Line)	1	1							
	NOTE: The following	items are additionally required when unit is									
	shipped in a rack.										
10	749691-1	Shipping Bracket (Left Hand)	1	1							
11	749691-2	Shipping Bracket (Right Hand)	1	1							
12**	3611382	Drive Identification Numbers	1	1							
	*NOTE: If unit is shipped in a rack, Items 8 and 9 are mounted to										
	the rack.										
	**NOTE: Attach the drive identification number set to the instruction										
	sheet #DEC-16-(379)-1094-N573 using transparent adhesive										
	tape. Insert sheet behind front cover of maintenance manual										

TITLE	ASSY. NO.	SIZE	CODE	NUMBER	REV.	ECO NO
DECpack Assembly	SHEET 1 OF 1	A	AL	RK05-0-17	E	RKØ5-00052
		DIST.				

digital EQUIPMENT CORPORATION

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

	SEQUENCE	SEQUENCE
DRAWING DIRECTORY	B-DD-H743-β	SHEET #1 ONLY
CIRCUIT SCHEMATIC	D-CS-H743-β-1	
+5V REGULATOR	E-1A-5409503-0-0	
CIRCUIT SCHEMATIC	D-CS-5409503-0-1	
±15V REGULATOR	E-1A-5409484-0-0	SHEET #2 ONLY
CIRCUIT SCHEMATIC	D-CS-5409484-0-1	

MFG PRINTS

POWER SUPPLY	D-UA-H743-0-0
POWER SUPPLY (PL)	A-PL-H743-0-0
DRAWING DIRECTORY	B-DD-H743-β

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET TYPE
VARIATION	TITLE	
H743-AA	POWER SUPPLY 115V	X
H743-AB	POWER SUPPLY 230V	X

REVISIONS								
REV	A	B	C	D	E	F	H	
ENG NO	70-[illegible]	H743-1	H743-2	H743-3	H743-4	H743-5	H743-6	
DATE	[illegible]	5/73	3/74	[illegible]	[illegible]	[illegible]	2-74	

USED ON OPTION/MODEL

RKβ5

DRN.	J. FLEMING	DATE 12/16/71
CHK'D.	[illegible]	DATE 4-7-72
PROJ ENG.	[illegible]	DATE [illegible]
PROD.	[illegible]	DATE [illegible]
FIELD SERV.		DATE

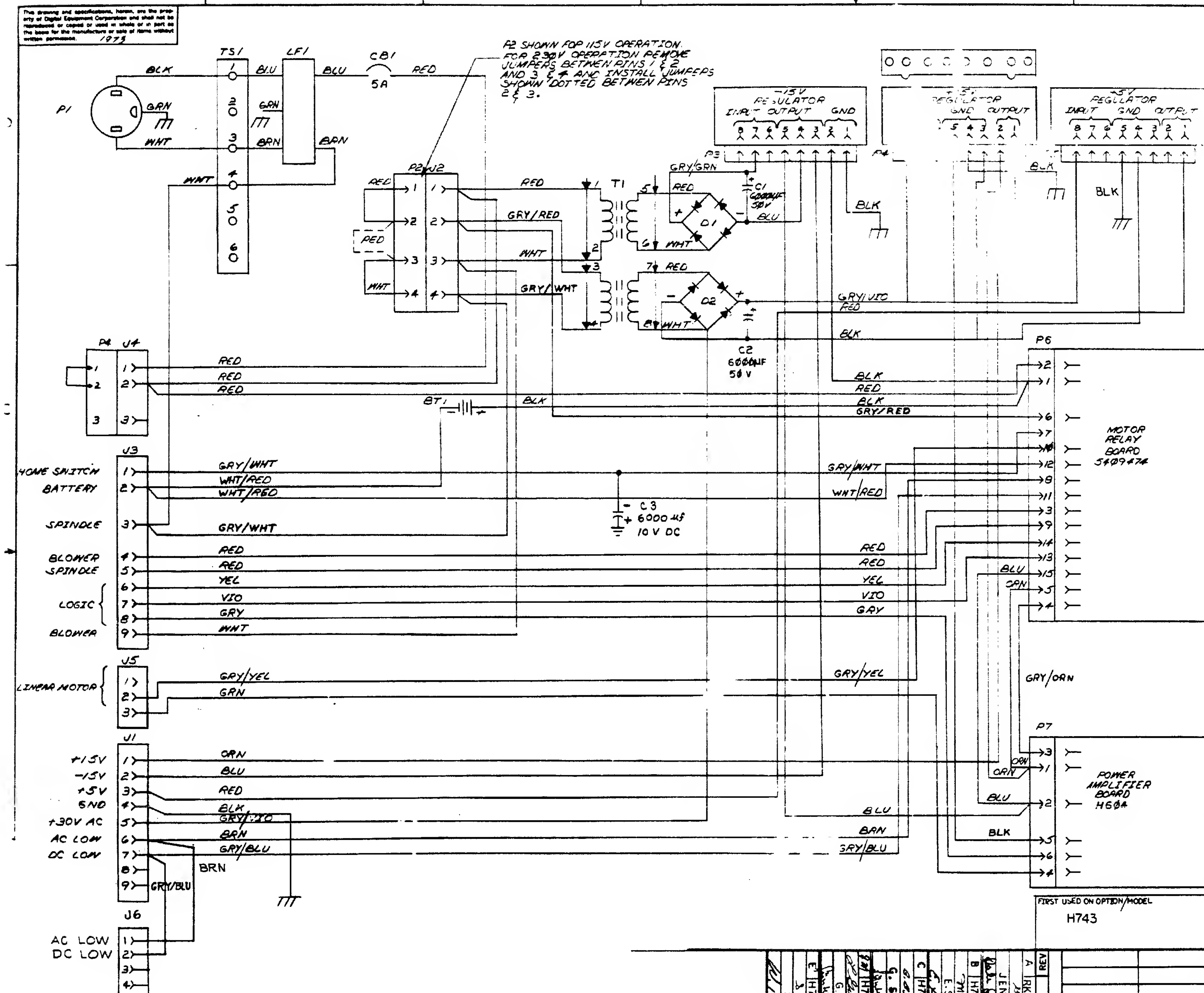
SHEET 1 OF [illegible]

TITLE: POWER SUPPLY (H743)

SIZE	CODE	NUMBER	REV
B	DD	H743-β	H

DIST 6

DRB 106



1	P1	POWER CORD 230V	1700016-09	22
1	C3	CAP 6000µf 10VDC	1010704	21
1	P4	JUMPER AC HI	B-IA-7008729-3-0	20
1	P2	JUMPER 230V	B-IA-7008729-2-0	19
1	P2	JUMPER 115V	B-IA-7008729-1-0	18
3	P3,P4,P6	CONN, MATE-N-LOCK, 8PIN	1209340-01	17
1	TS1	TERMINAL STRIP (6P05)	9006906	15
1	T1	TRANSFORMER	1610511	5
~~1~~	~~[illegible]~~	~~ELAPSED TIME INDICATOR, 2000 HRS~~	~~[illegible]~~	~~16~~
1	P7	CONN, MATE-N-LOCK, 6 PIN	1209351-06	13
1	P6	CONN, MATE-N-LOCK, 15 PIN	1209351-15	12
1		+5V REGULATOR	E-IA-5409503-0-0	11
2		± 15V REGULATOR	E-IA-5409484-00	10
1	BT1	BATTERY	1210641	9
1	P1	POWER CORD 115V	1700006-09	8
2	J4,J5	CONN, MATE-N-LOCK, 3PIN	1209350-03	7
2	J2,J6	CONN, MATE-N-LOCK, 4PIN	1209350-04	6
2	J1,J3	CONN, MATE-N-LOCK, 9PIN	1209350-09	5
1	LF1	LINE FILTER	1010585	4
2	C1,C2	CAP 6000µF, 50V	1010510	3
2	D1,D2	RECTIFIER (MDA990-3)	1110051	2
1	CB1	CIRCUIT BREAKER 5A	1205293	1
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO

PARTS LIST

ETCH BOARD REV

FIRST USED ON OPTION/MODEL: H743

REV	CHANGE NO.	
A	RK05-00019	
B	H743-00001	JENSEN
C	H743-00002	E. SIMMONS
D	H743-00004	G. SCHNEIDER
E	H743-00006	SLOAN

REVISIONS

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

DRN. / CHK'D / ENG. / PROJ. ENG. / PROD. — DATE 11-5-71, 11-24-71, 11-29-71, 8/30/72

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: CIRCUIT SCHEMATIC H743

NEXT HIGHER ASSY: B-DD-H743-0

SIZE: D | CODE: CS | NUMBER: H743-0-1 | REV.: E

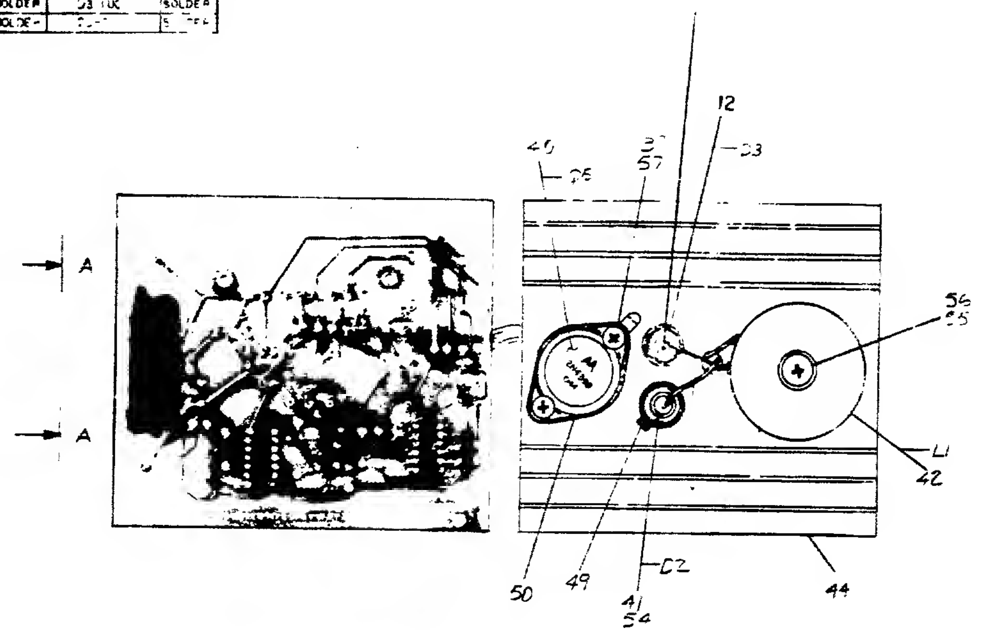
SCALE: NONE | SHEET 1 OF 1 | DIST.

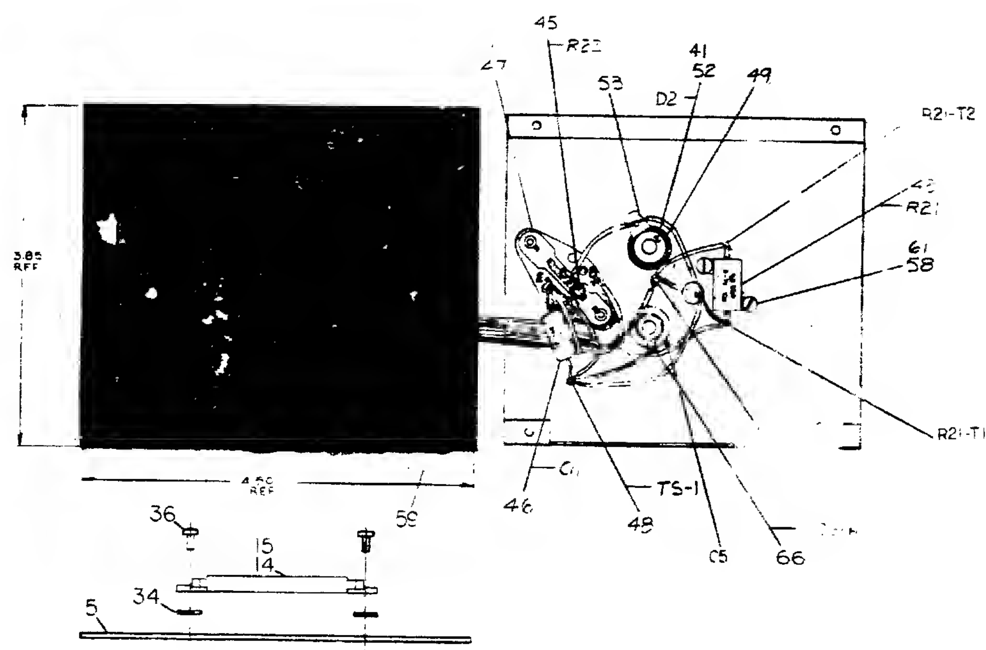
WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH
59	—	WHT	SPLIT LUG #1	SOLDER	Q5-E	SOLDER
59	—	GRY	#2	↑	Q5-B	↑
59	—	VIO	#3		Q5-C	
59	—	BLU	#4		TS-2	
59	—	GRN	#6		TS-1	
59	—	YEL	SPLIT LUG #5		R2-[illegible]	
59	—	[illegible]	Q5-C		D2-[illegible]	
59	—	RED	TS-2	↓	R2-T2	
62	22	WHT/GRN	TS-1	SOLDER	D2	
59	—	BLK	L1	—	D2-LUG	↓
59	—	BLK	L1	—	TS-2	SOLDER
59	—	GRN				
59	—	GRN	TS-1	SOLDER	D3 LUG	SOLDER
59	—	YEL	R21-T1	SOLDER	[illegible]	SOLDER

ITEM NO	DESCRIPTION	[illegible]	[illegible]	[illegible]	[illegible]
45	RES [illegible]		[illegible]	[illegible]	
46	CAP 1 µf 100V	+	C5-E	TS-1	—

R? IS USED FOR OUTPUT VOLTAGE ADJUSTMENT.
R? IS USED FOR OUTPUT CURRENT ADJUSTMENT.
✱ INDICATES JUMPERS TO BE INSTALLED





PARTS LIST

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM
1		SOLDER LUG	9008764	86
1		1/4 FLAT WASHER	9006376	85
				84
	C9	CAP 330UF 10V	1009008	83
A/R		WIRE 22 AWG TRACER WHT/GRN	9107400-95	82
2		WASHER INT TOOTH LOCK #2	9006631	81
A/R		BUS WIRE 22 AWG	9107580-01	60
A/R		20 CONNECTOR CABLE	9107575	59
2		SCR BINDING HD 2-56X3/16 SST	9006000-4	58
2		SCR PHIL PAN HD 8-32X1/2 SST	9006024-1	57
1		SCR PHIL TRUSS HD 10-32X1 SST	9006077-3	56
1		WASHER INT TOOTH LOCK #10	9006635	55
1		BUSHING	9006441	54
1		SOLDER LUG	9006150	53
1		NUT, HEX #10-32	9006564	52
4		SCR PHIL PAN HD #6-32X3/8 S T	9006407	51
2		THERMAL INSULATOR	9006419	50
2		THERMAL INSULATOR	9006424	49
2	TS1 TS2	INSULATED TERM STANDOFF	9006060	48
1		TRANSISTOR SOCKET	1210130	47
1	C11	CAP 1 UF 100-10	1005507	46
2	R22, R25	RES 100 5 1/4 W	1300223	45
1		HEAT SINK	D-IA-5309543-0-0	44
	R2?	RES 0 05 5W 3	1310507	43
	L1	120 UH CHOKE	1610573	42
1	D2	1N 3909 DIODE	111649?	41
1	Q5	2N 4300 TRANSISTOR	1505070	40
6		WASHER INT TOOTH #6	9006633	39
	R17	RES 27 1/4W 5	1301572	38
	R16	RES 1 5K 1/4W 5	1300391	37
		EYELETS #A 1733 STIMPSON	9006745	36
6		SPLIT LUGS	9006735	35
2		WASHER, NYLON	9006?07	34
2	E1 E2	IC 723C D I P REGULATOR	1910415	33
1	C1	TRANSISTOR D45C6 G E	1510414	32
				31
2	Q2 Q?	TRANSISTOR MEC #5340	1503403 00	30
1	R8	RES 2 7K 1/4W 5	1309680	29
2	R9 R15	RES 3 83K 1/8W 1	1309417	28
1	R	RES 1K 1 2W 20	1309150 3	27
1	R??	RES 1K 1W 20PR	1309143 07	26
	R20	RES 2 74K 1/8W 1 MF	1304068	25
	R6	RES 2 61K 1/8W 1 MF	1303303	24
	R19	RES 1K 1/8W 1 MF	1303114	23
	R14	RES 56 1/4W 5	1302802	22
	R10	RES 4 7K 1/2W 5	1300445	21
	R5	RES 270 1/4W 5	1301972	20
	R4	RES 4 7K 1/4W 5	1300442	19
	R? R7 R12	RES 1K 1/4W 5	1300365	18
	R18	RES 330 1/4W 5	1300255	17
	[illegible]	[illegible] 1/4W 10%	[illegible]	16
		CONNECTOR PIN	1200456	15
		CONN 8 PIN AMP	1200340-01	14
	F1	FUSE 5 AMPS	1209070	13
	D3	DIODE 1N4653B 5.6V	1111241	12
	C8	CAP .02 UF 100V-0+20% DISC	1000004	11
	C3	CAP 930 UF 30V-10+75% ELEC	1010509	10
	C1 C5 C10	CAP .01 UF 100V 20% DISC	1001610	9
	C7	CAP 1000 PF 100V 5% MICA	1000042	8
	C2	CAP 100 PF 100V 5% DM	1000016	7
	C6	CAP 68 PF 100V 5% DM	1000014	6
		ETCH CIRCUIT BOARD	5000502	5
		MODULE ECO HISTORY	B-IH-5409503-0-6	4
		ASSY DRILLING HOLE LAYOUT	D-AH-5409503-0-6	3
		X-Y COORDINATE HOLE LOCATION	A-CD-5409503-0-4	2
		CIRCUIT SCHEMATIC	D-CS-5409503-0-1	1

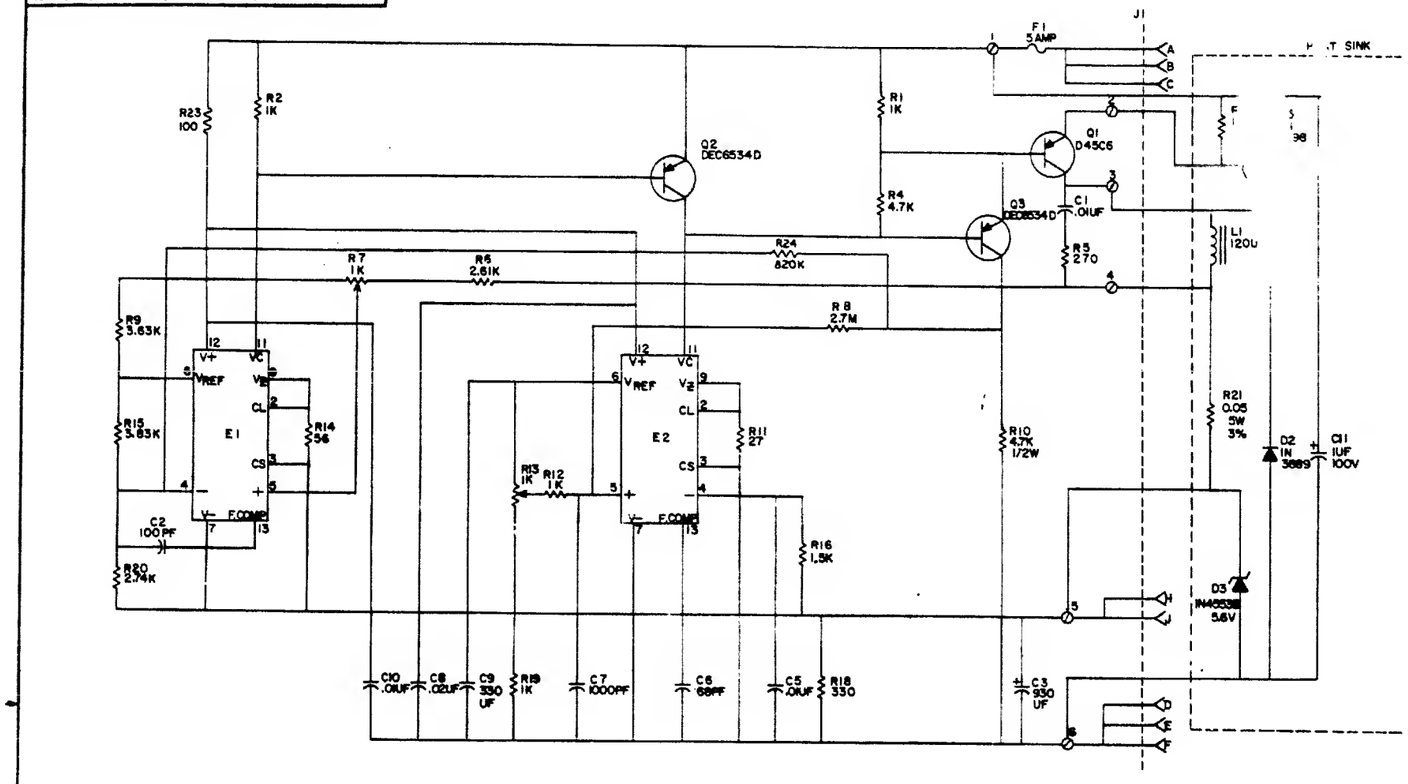
PARTS LIST

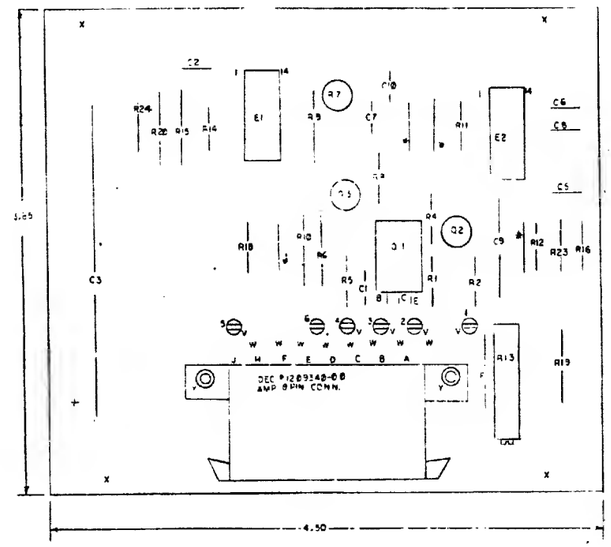
REF USED ON TYPICAL MODEL

DIGITAL EQUIPMENT CORPORATION

+5 VOLT POWER REGULATOR

E-IA-5409503-0-0





TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534C	[redacted]	D45C12A	2N[redacted]
D45C8		D45C8A	2N[redacted]
2N4444			
2N4445			

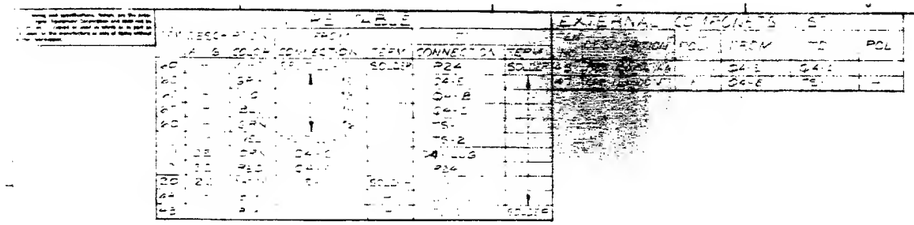
[redacted]
EQUIPMENT CORPORATION

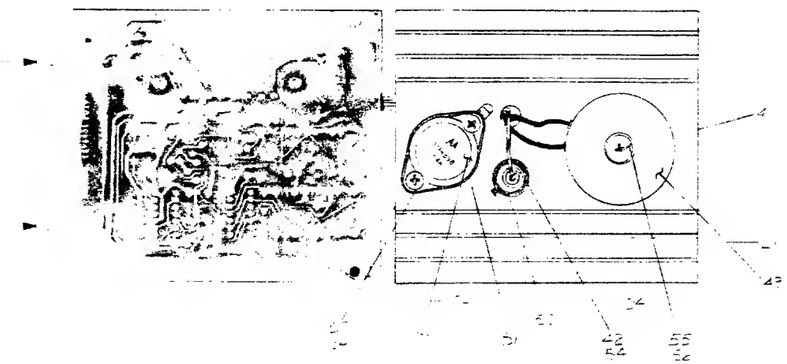
TITLE: +5 VOLT REGULATOR

SIZE D | CODE 03 | NUMBER 5409503-0-1 | REV L

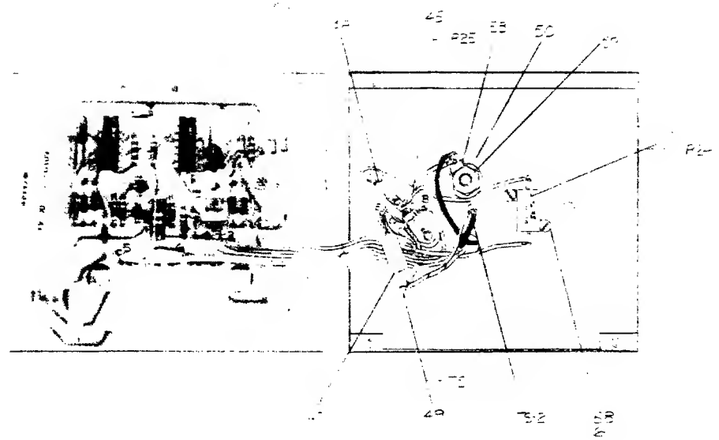
PRINTED CIRCUIT REV F

5409503-0-1 (63) 0





VIEW A-A

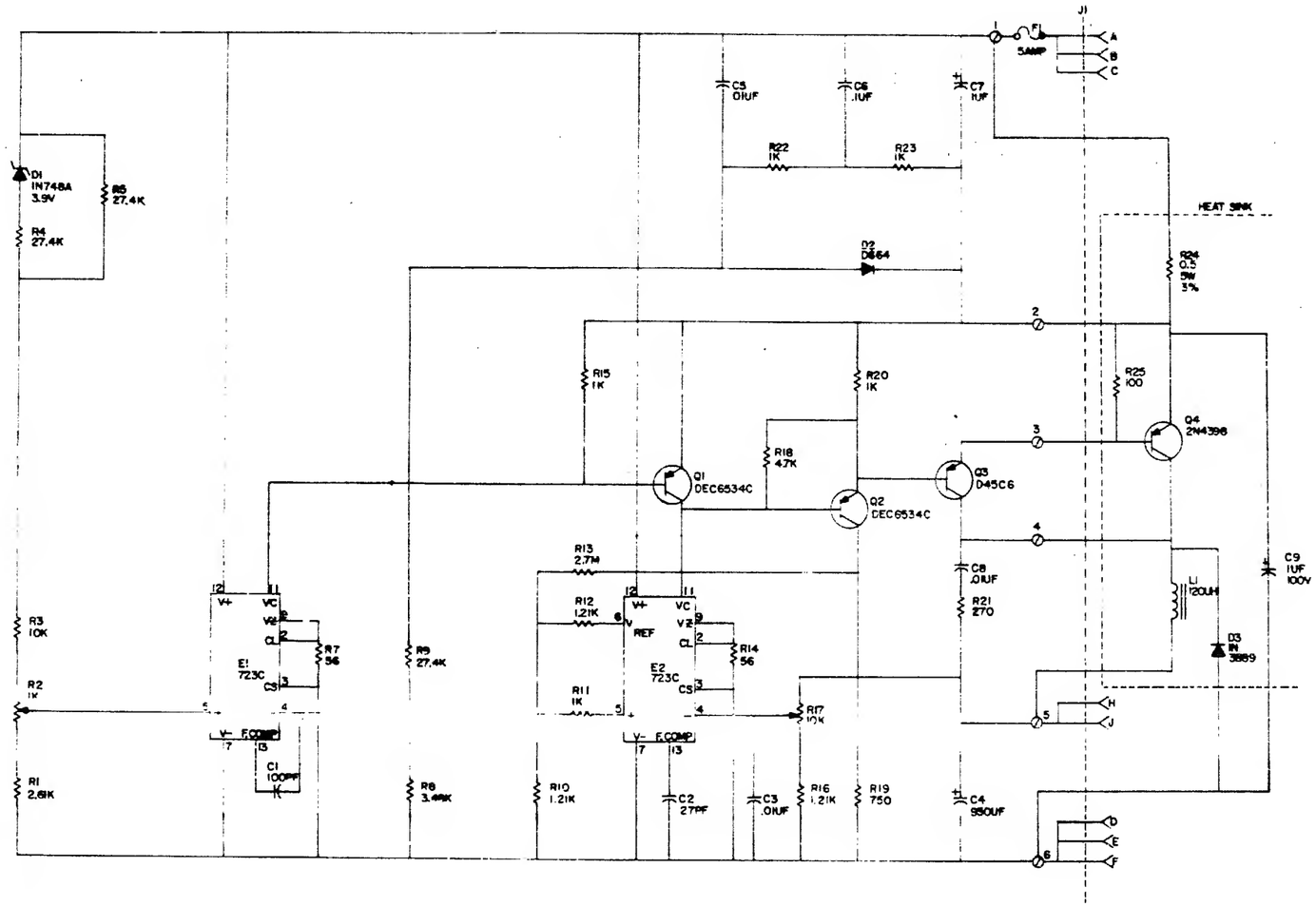


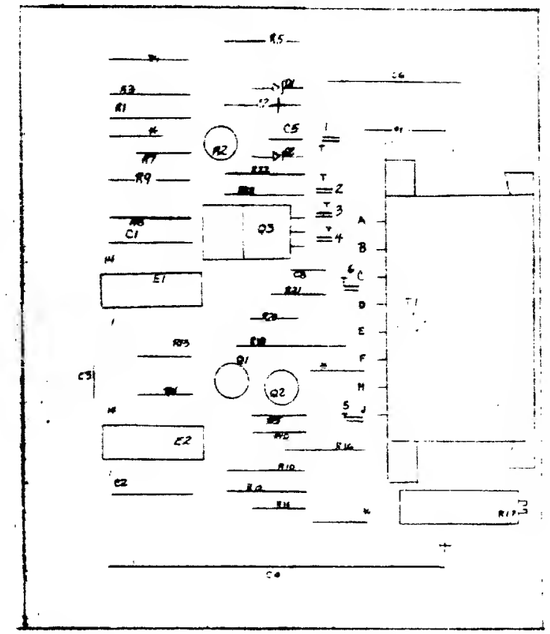
QTY	DESCRIPTION	PART NO	ITEM NO
	PARTS LIST		

DIGITAL

TITLE

SIZE E





1	R6	FOR FUTURE USE	
8		CONNECTOR PINS	1209456
1	J1	AMP 9 PIN CONNECTOR (MATE & LOCK)	1209340-09
1	F1	FUSE 5 AMPS	1209070
2		EYELET	9006765
6		SPLIT LOCK	9806725
2		WASHER NYLON	9486707
2	R1, 2	DIP RESISTOR 72PC	
1	Q3	TRANSISTOR	
1	Q1, 2	TRANSISTOR DEC 5534C	1503609-12
1	R13	RES. 2.7M 1/8W 5%	
6			
3	R4, 5, 9	RES. 27.4K 1/8W 1% MF	1309413
1	R2	RES. VARIABLE 1K 1W	
1	R17	RES. VARIABLE 10K 1/2W	
1	R8	RES. 3.48K 1/8W 1% MF	
1	R3	RES. 10K 1/8W 1% MF	
2	R22, 23	RES. 1K 1/8W 1% MF	
1	R1	RES. 2.61K 1/8W 1% MF	1305303
3	R10, 12, 16	RES. 1.21K 1/8W 1% MF	1309871
2	R7, 14	RES. 56 1/4W 5%	
1	R19	RES. 750 1W 5%	
1	R21	RES. 270 1W 5%	
1	R18	RES. 4.7K 1W 5%	
3	R11, 13, 20	RES. 1K 1W 5%	
1	C4	DIODE ZENER 1N748A 3.9V	
1	D2	DIODE D664	
1	C6	CAP. 1UF +80 -10 + 75 %	
1	C8	CAP. .01UF 100V 10% MYLAR	
1	C7	CAP. 1UF 35V 10% S. TANT	
1	C2	CAP. 27PF 100V 5% MICA	
3	C3, 5, 9	CAP. .01UF 100V 20%	
1	C1	CAP. 100PF	
1		STORED CIRCUIT BOARD	
		MODULE KIT HYBRID	
		ASSY/WIRING MODE LAYOUT	
		X-Y OSCILLOSCOPE MODE LOCK	

QTY. REF. DESIGNATION — DESCRIPTION

AR		20 CONDUCTOR CABLE	91-07575
1		#10/32 HEX NUT	
2		2/56 X 3/16" SCREW	
2		6/32 X 5/8" PAN HD SCREW	
1		10/32 X 1" TAPPING HD SCREW	9006077-5
4		#10 INTERNAL LOCK WASHER	9006675
1		CONNECTOR (DIODE)	
1		BOX-PWR LED	
14		#6 SELF TAPING SCREW	

2		THERMAL INSULATOR	
2		HEAT SINK (NOTE TYPE)	
1		TRANSISTOR	
1	C9	CAP, .1UF 100V	
1	R24	RES. 0.5Ω 5W 5%	
1	R25	RES. 100 5W 5%	
1	Q4	TRANSISTOR	
1	L1	INDUCTOR	
1	D3	ZENER DIODE	
1		HEAT SINK	

QTY. DESCRIPTION — DEC PART NO.

PARTS LIST